

**31 March 2012**

**First Quarter 2012 Groundwater Monitoring Report**

**Former CENCO Refinery  
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071  
CAO 97-118**

Prepared on Behalf of

**Isola Law Group, LLP  
Lodi, California**

Prepared for

**Regional Water Quality Control Board  
Los Angeles Region**

Prepared By

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The logo for MUREX environmental, inc. features a stylized red flame or bird-like icon to the left of the word "MUREX" in a bold, serif font. Below "MUREX" is the word "environmental, inc" in a smaller, lowercase sans-serif font.

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## 1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *First Quarter 2012 Groundwater Monitoring Report* for Lakeland Development Company (Lakeland) for its former refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

### 1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between January 26, 2012 and February 15, 2012, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

### 1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).



## 2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in November 2011. The following subsections summarize work completed during the first quarter 2012 monitoring event.

### 2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Twenty-five downgradient offsite groundwater monitoring wells of which:
  - Four are located on the former Lakeland property: MW-501A, MW-502, MW-503B, and MW-707; and
  - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite, deep, former water production wells identified as W-7 and W-8.

## 2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on January 26, 2012. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and 3 contained free-phase petroleum hydrocarbon (FPPH).

**Table II** summarizes the groundwater elevation and free product thickness measurements.

## 2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Wells that initially exhibit the presence of FPPH are purged until they become dry or until approximately 6 to 10 well volumes are evacuated. Thereafter, the wells are inspected for the return of FPPH and if present, its thickness is measured over longer and longer time intervals (in general 1 hour, 2 hours, 4 hours, 24 hours, 3 days, 7 days, and 10 days).

For wells in which FPPH does not return within the first day, groundwater is sampled for analysis.

Further discussion of the wells exhibiting free product is presented in Section 3.2.

## 2.4 Groundwater Purging

The groundwater monitoring wells that contained groundwater, with the exception of production wells W-7 and W-8, were purged via a dedicated vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. W-7 and W-8 are deep production wells and are sampled without purging water from them first. During purging, extracted groundwater volume and quality were recorded. The parameters measured during purging were flow rate, temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the Site.

## 2.5 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected by disposable bailer from the wells and placed in sample containers and stored in pre-cooled ice chests and transported under proper chain-of-custody (COC) procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250. All collected samples were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III** (Summary of VOCs, Oxygenates, TPH and Emergent Chemicals). Results of the field-measured parameters are shown in **Table IV**.

## **2.6 Quality Assurance/Quality Control**

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

### **2.6.1 Trip Blanks**

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

### **2.6.2 Duplicates**

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-503B, MW-702, MW-704, MW-705, and MW-714. This represents a duplicate frequency equal to approximately 13% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are shown in the results tables beside the original sample result.

### **2.6.3 Equipment Blanks**

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

### **2.6.4 Laboratory QA/QC Program**

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

### 3.0 RESULTS & DISCUSSION

This section presents the results of the first quarter 2012 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings.

**Figure 3** shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow. **Figure 4** depicts the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 5** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed COCs are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between site- and non-site-related constituents although there are indications of non-site-related contamination in groundwater, which is discussed further in Section 4.3.

#### 3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 3**.

Based on groundwater level measurements obtained on January 26, 2012, first-encountered groundwater beneath the site vicinity ranges in elevation from 17.19 to 50.71 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are production wells, with multiple screens situated deeper than 500 feet bgs. Their elevations were higher, between 58.85 and 73.36.

In general, groundwater elevations were similar to those measured in the fourth quarter 2011 monitoring event. Groundwater elevations had exhibited steady decreases for several years until the third quarter 2011, when they experienced a significant increase. The increase continued in the fourth quarter 2011 and has apparently leveled off. As a

whole, the average change in groundwater elevation over all the wells measured was an increase of approximately 1.38 feet from the fourth quarter 2011 sampling event.

The average horizontal groundwater gradient is approximately 0.007 foot per foot (ft/ft), as shown in **Figure 3**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

### 3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1, W-11, and W-15A (**Table II**). Well W-15A exhibited measureable FPPH for the third time during this event. FPPH was measured at a thickness of 1.80 feet in EW-1, 1.08 feet in W-11, and 0.29 feet in W-15A. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

### 3.3 Groundwater Analysis

Groundwater analytical results are summarized in **Tables III**, and laboratory reports and completed COCs are included in **Appendix B**.

#### 3.3.1 TPHg

First quarter 2012 TPHg results are presented in **Table III** and **Figure 4**. TPHg was detected in 34 out of the 39 wells sampled at concentrations ranging from 53 micrograms per liter ( $\mu\text{g/L}$ ) in monitoring well W-15C to 62,000  $\mu\text{g/L}$  in monitoring well W-15A.

Well W-11 exhibited the largest decrease among all the wells from 10,000  $\mu\text{g/L}$  to 2,900  $\mu\text{g/L}$ .

The most significant increase was observed in monitoring well W-711, where TPHg concentrations rose from 14,000  $\mu\text{g/L}$  in the fourth quarter 2011 to 23,000  $\mu\text{g/L}$  in the first quarter 2012. Well EW-1, which had also been exhibiting increases in TPHg concentration for the past 3 consecutive monitoring periods, was unable to be sampled due to the presence of free product, which quickly recharged into the well after purging. The most significant decreases in TPH-g were observed in wells MW-703, MW-704, MW-705, MW-709, MW-715, and W-11.

### 3.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical data for the first quarter 2012 is presented in **Table III**, along with historical data from previous monitoring events.

#### 3.3.2.1 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene was detected in 25 samples from the 39 total wells sampled. Concentrations ranged from 0.97 µg/L in well MW-107A to 4,400 µg/L in well W-15A (**Figure 5**) (24 of these wells contained benzene at concentrations exceeding the 1 µg/L California Maximum Contaminant Level (MCL) in drinking water). Benzene concentrations in the first quarter of 2012 were similar to concentrations observed during previous monitoring events.

Of the other BTEX compounds analyzed for, toluene was detected in samples from 17 wells at concentrations ranging from 0.54 µg/L in MW-107A to 2,400 µg/L in W-15A. Toluene was detected above its California MCL (150 µg/L) in 3 wells.

Ethylbenzene was detected in the samples collected from 18 wells at concentrations ranging from 0.57 µg/L in W-7 to 2,400 µg/L in W-15A. Ethylbenzene was detected at or above its California MCL (300 µg/L) in 5 wells this quarter.

Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 16 wells at concentrations ranging from 0.59 µg/L in W-7 to 12,200 µg/L in W-15A. Xylene was detected above the California MCL (1,750 µg/L) in 2 wells.

#### 3.3.2.2 *Methyl tert-Butyl Ether (MTBE)*

The oxygenate MTBE was detected in samples from 11 wells at concentrations ranging from 4.4 µg/L in MW-706 and MW-709 to 930 µg/L in W-15A (**Figure 6**). The 13 µg/L drinking water MCL established for MTBE in California was exceeded in 8 wells.

#### 3.3.2.3 *tert-Butyl Alcohol (TBA)*

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in 13 of the 39 sampled wells at concentrations ranging from 10 µg/L in wells W-15C and W-17C to 230 µg/L in well MW-705. The California Notification Level (formerly Action Level) and Response Level for Drinking Water for TBA is 12 µg/L. A total of 11 TBA detections exceeded this limit for this quarter.

#### **3.3.2.4 Other VOCs**

In addition to the aforementioned constituents of concern, several VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as tetrachloroethene (PCE), trichloroethene (TCE), and cis- and trans-1,2-dichloroethene (cis-1,2-DCE and trans-1,2-DCE), among others, which we believe are the result of off-site contamination entering the Lakeland well network.

The most significant detections of chlorinated compounds are described as follows: to the southwest, in wells MW-710 and W-14B, PCE and TCE were detected between 22-110 ug/L.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Lakeland property. Murex provides this data to the U.S. EPA on a periodic basis.

#### **3.3.3 Biodegradation Parameters**

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron ( $\text{Fe}^{3+}$ )-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate,  $\text{Fe}^{3+}$ , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed,  $\text{Fe}^{3+}$  reduction will begin if  $\text{Fe}^{3+}$  is present.  $\text{Fe}^{3+}$  concentrations will decrease, while  $\text{Fe}^{2+}$  concentrations will increase. After most  $\text{Fe}^{3+}$  is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

### 3.3.3.1 *Field Measured Parameters*

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 38 monitoring wells using an YSI 556 water quality meter (**Table IV**). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.80 to 9.21 with a few exceptions, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. The vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content. It is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum.
- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 31 of the 34 wells measured.

ORP values ranged from -253.2 mV in well W-16C to 61.8 mV in Well W-9. **Figure 7** illustrates iso-concentration contour lines for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicate that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

### 3.3.4 QA/QC

Duplicate sample results are provided alongside their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.



Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

## **4.0 SUMMARY & CONCLUSIONS**

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in February 2012 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 39 of those wells for analysis of TPHg and VOCs.

### **4.1 Groundwater Surface Elevations and Gradient**

A horizontal groundwater gradient of approximately 0.007 ft/ft was calculated for the fourth quarter groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have increased (although it dropped in select individual wells) by approximately 1.38 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements.

This was the fourth consecutive measurement period in which groundwater elevations increased on the whole, rather than decreased for several years. Most notably, wells MW-16B, MW-16C, MW-17B, and MW-17C exhibited very large increases since October 2010, which may indicate a decrease in pumping activities to the northeast. Deep-screened production wells W-7 and W-8 also exhibited increases in groundwater elevation, which greatly exceed shallow wells in their vicinity. When deeper groundwater monitoring wells exhibit faster increases in elevation in an unconfined aquifer that exhibits connectivity across several screen horizons, it is indicative of an upward pressure gradient acting through the aquifer. The pressure gradient is noticeable in monitoring wells first, and acts through the aquifer soils more slowly over time.

### **4.2 Free-Phase Petroleum Hydrocarbons**

Measureable free product was identified in three wells EW-1, W-11, and W-15A. These wells have all exhibited FPPH in the past. The FPPH thickness measured in these three wells (1.80, 1.08, and 0.29 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., “fingerprints”) of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this

study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report.

### 4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were in the western portions of the site, as well as due south of these areas beneath the former Lakeland property and the northern portions of the MSH (see **Figure 4**). The maximum concentration of TPHg was measured in wells exhibiting FPPH, 62,000 ug/L in well W-15A, 23,000 ug/L in well MW-711 and 18,000 ug/L in well MW-708. Both MW-708 and MW-711 are located south of the former Lakeland property.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well W-15A, at 4,400 ug/L, located on the southeastern portion of the MSH (see **Figure 5**). The maximum concentration of MTBE was also detected in well W-15A at 930 ug/L, located southeast of the former Lakeland property (**Figure 6**) at a distance of approximately 3,000 feet. It is likely that the impacts present in well W-15A are resultant from releases other than those sourced from the refinery property.

In general, the petroleum hydrocarbon plume being studied within the Lakeland well network has not changed significantly during the many years of measurement, with the exception of the rather sudden and recent discovery of FPPH in well WW-15A, which may be the result of a release located near to that well.

Lakeland will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program.

#### 4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Lakeland site, data collected from the monitoring well network (see **Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are 1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells MW-503B and MW-708, 2) the lack of MTBE in wells MW-707 and MW-711 despite the presence of benzene and 3) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In connection with the study of the FPPH samples submitted for fingerprinting analysis, Murex is also reviewing literature and maps to identify other possible sources of petroleum hydrocarbons in the vicinity of the Site as well as to distinguish Site-related contamination from contamination originating elsewhere.

#### **4.3.2 Discussion of Solvent Detections**

Data collected from the monitoring well network (see **Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The following observations were made regarding additional detected chemicals in groundwater within the Lakeland monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 22 and 110 ug/L) were measured in wells W-14B and MW-710. This is consistent with previously measured high values from MW-710. Levels of PCE and TCE found in W-14B had been steadily increasing for the past several monitoring periods since January 2011. Historically, these compounds were also detected in wells MW-107A, MW-701, and MW-14C.

Cis-1,2-DCE and trans-1,2-DCE were found in 21 of the wells sampled at concentrations consistent with historical levels.

1,1-DCE was detected at an elevated concentration of 71 µg/L in well MW-710. Historically, wells W-14B and W-14C also exhibited elevated concentrations of these chemicals.

This mixture of solvents varies from those detected on the eastern side of the Lakeland well network, as it exhibits a proportionally even blend (see historical results, well MW-105, **Table III**) of TCE and 1,1-DCE.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Lakeland property. Murex provides this data to the U.S. EPA on a periodic basis.

#### **4.3.3 Assessment of Vapor Risk from Groundwater Plume**

At the direction of the DTSC, Lakeland has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

#### **4.4 Biodegradation**

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate,  $\text{Fe}^{2+}$ , methane, alkalinity, and ORP results from previous sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

## 5.0 REFERENCES


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## 6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,  
MUREX ENVIRONMENTAL, INC.

  
Jeremy R Squire, P.E.  
Senior Engineer




  
Paris Hajali, Ph.D., P.E.  
Principal

Table I  
Well Construction Details  
Former CENCO Refinery  
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s)	
Well ID	Date	By	Elevation <sup>1</sup>		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation <sup>1</sup> (ft)							
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
									(ft)	(ft amsl)	(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top			Bottom
Groundwater Monitoring Wells																						
EW-1	6/11/1905	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro		141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0 02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0 02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140.00*	140.09	12	4	-	30	65.5	103	69.5	99.5	99.5	104 5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 <sup>2</sup>	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar			-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 <sup>2</sup>	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 <sup>2</sup>	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	-	111.52	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	143.18	142.56	-	4	-	20	-	-	580	600	609	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	TA	140.37	139.84	8	2	0 01	35	73	111	75	110	110	120 5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	TA	141.39	140.71	8	2	0 01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	TA	141.96	142.10	8	2	0 01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	TA	142.93	145.15	8	2	0 01	35	75	114	75	114	114	120 5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)



Table I  
Well Construction Details  
Former CENCO Refinery  
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s)	
Well ID	Date	By	Elevation <sup>1</sup>		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation <sup>1</sup> (ft)							
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
									(ft)	(ft amsl)	(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top			Bottom
W-14A	1/22/2008-1/30/2008	Arcadis	115.23	114.71	9	2	0 02	45	67	112	67	112	112	200	48	3	48	3	3	-85	MSH	ARCADIS (2008)
W-14B			115.00*	114.78	9	2	0 02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85		
W-14C			115.00*	114.78	9	2	0 02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85		
W-15A	11/27/2007-12/10/2007	Arcadis	127.91	127.59	10	2	0 02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			128.00*	127.61	10	2	0 02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			128.00*	127.59	10	2	0 02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72		
W-16A	10/24/2007-10/30/2007	Arcadis	147.89	147.60	10	2	0 02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			148.00*	147.68	10	2	0 02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			148.00*	147.67	10	2	0 02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008-2/8/2008	Arcadis	141.60	141.38	9	2	0 02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			142.00*	141.37	9	2	0 02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			142.00*	141.38	9	2	0 02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59		
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0 02	50	77	130	80	130	130	130	59.87	6 87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0 02	50	77	130	80	130	130	130	63.90	10.90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0 02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0 02	50	77	130	80	130	130	130	60.93	7 93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0 02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0 02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0 02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0 02	50	77	130	80	130	130	130	49.73	-3 27	46.73	-3.27	-3.27	-3.27	MSH	Murex (2011)
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0 02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	MSH	Murex (2011)
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0 02	50	77	130	80	130	130	130	45.15	-7 85	42.15	-7.85	-7.85	-7.85	MSH	Murex (2011)
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0 02	50	77	130	80	130	130	130	51.09	-1 91	48.09	-1.91	-1.91	-1.91	MSH	Murex (2011)
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0 02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	MSH	Murex (2011)
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0 02	50	77	130	80	130	130	130	51.42	-1 58	48.42	-1.58	-1.58	-1.58	MSH	Murex (2011)
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0 02	50	77	130	80	130	130	130	52.07	-0 93	49.07	-0.93	-0.93	-0.93	MSH	Murex (2011)
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0 02	50	77	130	80	130	130	130	39.66	-13 34	36.66	-13.34	-13.34	-13.34	MSH	Murex (2011)
Groundwater Production Wells																						
					-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)
W-7	-		-	141.97	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery	
W-8	-		-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery	

**NOTES:**  
Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

<sup>1</sup>Survey by BLC Surveying and BBL, Inc. Benchmark No. 13-15290 City of Los Angeles

- <sup>2</sup>Well abandoned
- ft Feet
  - in Inches
  - MSH Metropolitan State Hospital Property
  - amsl Above mean sea level
  - TA Test America Drilling
  - TOC Top of casing
  - \* Value retrieved from Google Earth

**Table II**  
**Summary of Groundwater Level Measurements**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**  
**First Quarter 2012**

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	1/26/2012	113.00	107.52	105.72	1.80	146.85	39.33
W-1	1/26/2012	129.61	109.91			144.81	34.90
W-3A	1/26/2012	111.73	DRY			136.79	NA
W-4	1/26/2012	129.71	111.13			142.56	31.43
W-7	1/26/2012	NM	83.12			141.97	58.85
W-8	1/26/2012	NM	67.75			141.11	73.36
W-9	1/26/2012	110.37	92.58			139.84	47.26
W-10	1/26/2012	110.21	97.63			140.71	43.08
W-11	1/26/2012	112.61	98.90	97.82	1.08	142.10	43.20
W-12	1/26/2012	116.10	103.39			145.15	41.76
W-14 A	1/26/2012	111.85	92.37			114.71	22.34
W-14 B	1/26/2012	112.09	90.35			114.78	24.43
W-14 C	1/26/2012	166.57	90.60			114.78	24.18
W-15 A	1/26/2012	125.70	110.40	110.11	0.29	127.59	17.19
W-15 B	1/26/2012	155.60	110.11			127.61	17.50
W-15 C	1/26/2012	197.34	109.77			127.59	17.82
W-16 A	1/26/2012	123.12	113.40			147.60	34.20
W-16 B	1/26/2012	160.25	109.46			147.68	38.22
W-16 C	1/26/2012	196.30	109.12			147.67	38.55
W-17 A	1/26/2012	108.30	96.96			141.38	44.42
W-17 B	1/26/2012	169.60	98.15			141.37	43.22
W-17 C	1/26/2012	200.00	98.19			141.38	43.19
MW-101	1/26/2012	90.72	DRY			138.00	NA
MW-103	1/26/2012	94.70	DRY			139.36	NA
MW-104A	1/26/2012	100.08	93.42			144.13	50.71
MW-105	1/26/2012	100.47	DRY			141.16	NA
MW-106A	1/26/2012	110.00	105.78			152.81	47.03
MW-107A	1/26/2012	109.49	104.67			147.02	42.35
MW-201	1/26/2012	101.60	DRY			135.65	NA
MW-202	1/26/2012	92.55	DRY			140.62	NA
MW-203	1/26/2012	102.30	DRY			143.71	NA
MW-204	1/26/2012	103.10	DRY			142.90	NA
MW-205	1/26/2012	98.27	DRY			140.09	NA
MW-501A	1/26/2012	93.27	DRY			130.89	NA
MW-502	1/26/2012	100.59	DRY			131.00	NA
MW-503B	1/26/2012	108.67	100.31			132.66	32.35
MW-504	1/26/2012	95.76	DRY			137.18	NA
MW-600A	1/26/2012	92.70	DRY			124.26	NA
MW-601A	1/26/2012	89.90	DRY			126.53	NA
MW-603	1/26/2012	97.60	DRY			120.95	NA
MW-604	1/26/2012	103.20	DRY			140.07	NA
MW-605	1/26/2012	93.98	DRY			116.82	NA
MW-606	1/26/2012	99.05	DRY			116.06	NA
MW-607	1/26/2012	107.05	DRY			128.28	NA
MW-701	1/26/2012	130.00	98.85			139.48	40.63
MW-702	1/26/2012	130.00	98.74			140.12	41.38
MW-703	1/26/2012	130.00	100.23			137.23	37.00
MW-704	1/26/2012	130.00	102.11			137.66	35.55
MW-705	1/26/2012	130.00	103.39			141.94	38.55
MW-706	1/26/2012	130.00	100.00			139.30	39.30
MW-707	1/26/2012	130.00	96.96			128.43	31.47
MW-708	1/26/2012	130.00	96.46			126.26	29.80
MW-709	1/26/2012	130.00	109.88			139.78	29.90

**Table II**  
**Summary of Groundwater Level Measurements**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**  
**First Quarter 2012**

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	1/26/2012	130.00	93.67			121.99	28.32
MW-711	1/26/2012	130.00	101.00			127.84	26.84
MW-712	1/26/2012	130.00	98.70			123.31	24.61
MW-713	1/26/2012	130.00	104.90			128.15	23.25
MW-714	1/26/2012	142.00	104.52			128.87	24.35
MW-715	1/26/2012	134.00	96.06			116.22	20.16

**NOTES:**

ft            Feet  
FPPH        Free-phase petroleum hydrocarbons  
amsl        Above mean sea level  
NM          Not measured, inaccessible  
NA          Not available/applicable

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	UG/L	11/1/1989	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	UG/L	3/1/1990		1800	300	1800								<25		<50			<25	<25	<100
EW-1	UG/L	4/1/1990		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	UG/L	8/21/1998	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	1/28/1999	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	7/19/1999	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25		<25	<13	<13
EW-1	UG/L	1/13/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/26/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	11/10/2006	4800	65	<4	68	16	<4	<10	<100	42	6.9	<4	<4		8.4	6.3		<4	<4	<10
EW-1	UG/L	2/9/2007	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5		<2	<2	<5
EW-1	UG/L	5/10/2007	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9		<4	<4	<10
EW-1	UG/L	8/10/2007	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	UG/L	2/8/2008	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	UG/L	2/3/2011	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	2/3/2011	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	4/13/2011	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
MW-101	UG/L	6/1/1988		620	<5	<5															
MW-101	UG/L	9/1/1988		310	10	34															
MW-101	UG/L	12/1/1988		490	28	<5															
MW-101	UG/L	6/1/1992		440	<5	<5															
MW-101	UG/L	9/1/1992		340	<5	<5															
MW-101	UG/L	12/1/1992		290	<5	<5															
MW-101	UG/L	3/1/1993		200	<5	<5															
MW-101	UG/L	12/1/1994		62	<5	5															
MW-101	UG/L	3/1/1995		110	<5	110															
MW-101	UG/L	9/1/1995		180	<4	180															
MW-101	UG/L	12/13/1995	2400	90	5.9	6.4								36		0.97	45		9.3	1.8	<0.5
MW-101	UG/L	7/31/1996	2300	130	14	130			<10					24000		<0.3	350		8.6	1.6	<0.3
MW-101	UG/L	12/17/1996	920	<25	<50	<25			<2		<25	<25	<25	57		<25	90		<25	<25	<50
MW-101	UG/L	1/19/1998	1400	65	<5	<5			<5		<10	<5	<5	180		<5	62		17	<5	<10
MW-101	UG/L	8/18/1998	3200	140	<5	15					<10	<5	<5	34		<5	52		<5	<5	<10
MW-101	UG/L	1/26/1999	3200	68.4	<5	7.08			<5		<10	<5	<5	19.3		<5	71.9		13.9	<5	<10
MW-101	UG/L	7/19/1999	1300	22	<2	2.4			<2		<20	<2	<2	78		8.5	57		18	<1	<1
MW-101	UG/L	1/10/2000	690	9.2	<1	<1			<1		<10	<1	<1	210		3.5	25		12	2.6	<0.5
MW-101	UG/L	8/3/2000	<500	24	<2	<2			<2		<20	<2	<2	37		19	33		15	3.6	5
MW-101	UG/L	2/9/2001	600	26	<5	<5			<5		<50	<5	<5	9.9		11	21		7.5	<2.5	3.2
MW-101	UG/L	7/26/2001	690	25	<1	2.5			<1		<10	<1	<1	8.1		15	28		8.2	<5	4.3
MW-101	UG/L	5/8/2002	580	17	<1	1.3			<1	<10000	<10	<1	<1	6.2		5.6	16		2.9	<0.5	1.9
MW-101	UG/L	9/25/2002	570	31	<1	1.2			<1	27000	<10	<1	<1	4.5		4.5	14		3	<0.5	<0.5
MW-101	UG/L	8/3/2006	2700	89	<2	3.6	<2	<2	<5	<50	<5	<2	<2	<2		2.4	26		<2	<2	<5
MW-101	UG/L	11/10/2006	1900	100	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	33		<2	<2	<5
MW-101	UG/L	2/12/2007	2100	240	<8	<8	<8	<8	<20	72	<20	<8	<8	<8		<8	47		<8	<8	<20
MW-101	UG/L	5/11/2007	1100	29	0.47	1	<2	<2	<5	<50	0.76	<2	<2	0.37		2.6	26		1.5	0.39	0.82
MW-101	UG/L	8/8/2007	2600	31	0.49	0.95	<2	<2	<5	<50	<5	<2	<2	0.43		<2	21		1	0.46	0.72

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-101	UG/L	11/8/2007	830	62	0.9	1.7	0.8	<0.3	<0.32	<4.9	<0.41	0.24	<0.26	<0.32		<0.27	31		1.2	<0.28	<0.3
MW-103	UG/L	6/1/1988		970	74	<5															
MW-103	UG/L	9/1/1988		300	<5	<5															
MW-103	UG/L	12/1/1988		370	<5	<5															
MW-103	UG/L	3/1/1989		940	<5	<5															
MW-103	UG/L	6/1/1989		700	<5	<5															
MW-103	UG/L	9/1/1989		1000	30	<5															
MW-103	UG/L	3/1/1992		210	<5	5															
MW-103	UG/L	6/1/1992		880	<5	<5															
MW-103	UG/L	9/1/1992		200	<5	<5															
MW-103	UG/L	12/1/1992		350	<5	<5															
MW-103	UG/L	3/1/1993		<5	8	19															
MW-103	UG/L	5/1/1993		4800	<250	<250															
MW-103	UG/L	5/25/1993		4800	<250	<250															
MW-103	UG/L	9/1/1993		1300	88	62															
MW-103	UG/L	11/1/1993		1400	<250	<250															
MW-103	UG/L	12/1/1994		240	<10	<10															
MW-103	UG/L	3/1/1995		160	<5	<5															
MW-103	UG/L	9/1/1995		900	<50	<50															
MW-103	UG/L	12/13/1995	4100	410	4.1	2.6								<0.5		<0.5	<0.5		2.2	2.1	2.5
MW-103	UG/L	7/31/1996	2700	340	5	<0.5			<10					<0.3		<0.3	0.7		17	1.7	<0.3
MW-103	UG/L	12/17/1996	2400	200	<5	<5			<10		<5	<5	<5	8.9		<5	<5		27	<5	54
MW-103	UG/L	1/21/1998	1300	230	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	28
MW-103	UG/L	8/19/1998	1600	220	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-103	UG/L	1/27/1999	1900	110	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-103	UG/L	7/19/1999	1800	61	1.1	<1			<1		<10	<1	<1	<1		<1	1.2		<1	<0.5	<0.5
MW-103	UG/L	1/12/2000	1500	81	<1	<1			1.2		<10	<1	<1	<1		<1	3		<1	4	<0.5
MW-103	UG/L	8/4/2000	520	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	2.9		<1	1.5	0.75
MW-103	UG/L	2/9/2001	650	0.87	<1	<1			<1		<10	<1	<1	<1		<1	2.4		<1	<0.5	<0.5
MW-103	UG/L	7/25/2001	1300	41	<1	<1			2.5		<10	5.8	1.7	<1		<1	2.5		<1	<0.5	<0.5
MW-103	UG/L	5/8/2002	200	<0.5	<1	<1			<1	53000	<10	<1	<1	<1		<1	1.3		<1	<0.5	<0.5
MW-103	UG/L	9/25/2002	690	40	<1	<1			1.4	40000	<10	1.4	<1	<1		<1	1.6		<1	<0.5	<0.5
MW-103	UG/L	8/3/2006	350	<2	<2	<2	<2	<2	71	200	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	11/8/2006	430	4.1	<2	<2	<2	<2	41	160	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	2/8/2007	360	36	<2	<2	<2	<2	26	190	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-103	UG/L	5/9/2007	220	0.51	<2	<2	<2	<2	12	85	<5	<2	<2	<2		<2	0.93		<2	0.32	<5
MW-103	UG/L	8/8/2007	370	1.3	<2	0.51	0.7	<2	14	110	<5	<2	<2	<2		<2	1.4		<2	0.53	<5
MW-103	UG/L	11/6/2007	880	11	0.49	1.2	2.8	0.4	20	160	<0.41	0.24	0.39	<0.32		<0.27	2		<0.27	0.44	<0.3
MW-104	UG/L	6/1/1988		<5	<5	<5															
MW-104	UG/L	9/1/1988		<5	<5	<5															
MW-104	UG/L	12/1/1988		<5	<5	<5															
MW-104	UG/L	3/1/1989		<5	<5	<5															
MW-104	UG/L	6/1/1989		<5	<5	<5															
MW-104	UG/L	9/1/1989		<5	<5	<5															
MW-104	UG/L	12/1/1989		<5	<5	<5															
MW-104	UG/L	3/1/1990		<5	<5	<5															
MW-104	UG/L	6/1/1990		<5	<5	<5															

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-104	UG/L	9/1/1990		<5	<5	<5															
MW-104	UG/L	12/1/1990		<5	<5	<5															
MW-104	UG/L	3/1/1991		<5	<5	<5															
MW-104	UG/L	6/1/1991		<5	<5	<5															
MW-104	UG/L	9/1/1991		<5	<5	<5															
MW-104	UG/L	12/1/1991		<5	<5	<5															
MW-104	UG/L	3/1/1992		<5	<5	<5															
MW-104	UG/L	6/1/1992		<5	<5	<5															
MW-104	UG/L	9/1/1992		<5	<5	<5															
MW-104	UG/L	12/1/1992		<5	<5	<5															
MW-104	UG/L	3/1/1993		<5	<5	<5															
MW-104	UG/L	5/1/1993		<5	<5	<5															
MW-104	UG/L	5/25/1993		<5	<5	<5															
MW-104	UG/L	9/1/1993		<5	<5	<5															
MW-104	UG/L	11/1/1993		<5	<5	<5															
MW-104	UG/L	3/1/1994		<5	<5	<5															
MW-104	UG/L	6/1/1994		<5	<5	<5															
MW-104	UG/L	12/1/1994		<5	<5	<5															
MW-104	UG/L	3/1/1995		<5	<5	<5															
MW-104	UG/L	9/1/1995		3	<2	<2															
MW-104	UG/L	12/13/1995	<500	3	0.6	<5										0.78			2.7		
MW-104	UG/L	7/31/1996	<100	2.2	1.8	<1			<10					<0.3		<0.3	1.5		0.58	0.51	<0.3
MW-104	UG/L	12/16/1996	310	4.2	<1	<1			<2		<1	<1	<1	<1		<1	2.7		<1	<1	3.2
MW-104	UG/L	1/20/1998	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104	UG/L	8/18/1998	<100	<5	<5	<5					<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104	UG/L	1/27/1999	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-104A	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	UG/L	1/13/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	UG/L	8/2/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	UG/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	UG/L	7/25/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	UG/L	5/7/2002	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		1.4	5.4		<1	<0.5	<0.5
MW-104A	UG/L	6/30/2004	<200	<5	<5	<5			<5	30J		<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	UG/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5
MW-104A	UG/L	2/15/2006	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5		<5	2		<5	<5	<5
MW-104A	UG/L	2/7/2007	540	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-104A	UG/L	5/8/2007	33	<2	0.37	<2	<2	<2	<5	340	<5	<2	<2	<2		<2	1.8		<2	<2	<5
MW-104A	UG/L	8/8/2007	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2		0.51	2.9		<2	<2	<5
MW-104A	UG/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2		0.91	5.2		<2	<2	<5
MW-104A	UG/L	1/16/2009	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2		0.57	4.6		<2	<2	<5
MW-104A	UG/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	38	<5	<2	<2	<2		0.62	4.5		<2	<2	<5
MW-104A	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	<1.0
MW-104A	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.5		<1.0	<0.50	<1.0
MW-104A	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-104A	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	6.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-105	UG/L	12/21/1995	<500	11	1.7	0.81								16			9.4		4.5	3.3	
MW-105	UG/L	7/31/1996	650	91	1.8	2			<10					24		<0.3	8.4		12	1.4	<0.3
MW-105	UG/L	12/16/1996	240	14	<5	<5			<2		<5	<5	<5	80		<5	10		<5	<5	<10
MW-105	UG/L	1/20/1998	510	21	<5	<5			<5		<10	<5	<5	150		<5	25		22	<5	<10
MW-105	UG/L	8/18/1998	680	53.6	<5	<5					<10	<5	<5	96.7		<5	25.3		15.4	<5	<10
MW-105	UG/L	1/25/1999	530	<5	<5	<5			<5		<10	<5	<5	125		<5	22		14	<5	6.43
MW-105	UG/L	7/19/1999	610	4.8	<1	<1			<1		<10	<1	<1	78		15	29		16	3.4	<0.5
MW-105	UG/L	1/10/2000	900	61	<5	<5			<5		<50	<5	<5	<5		62	40		20	4	<2.5
MW-105	UG/L	7/31/2000	580	52	<5	<5			<5		<9.5	<5	<5	<5		59	52		14	9.5	10
MW-105	UG/L	2/6/2001	610	<2.5	<5	<5			<5		<50	<5	<5	<5		21	33		12	<2.5	7.9
MW-105	UG/L	7/24/2001	210	1	<1	<1			<1		<10	<1		<1		11	18		9	1.5	<5
MW-105	UG/L	5/7/2002	530	1.1	<1	<1			<1	27000	<10	<1	<1	<2		6.8	14		4.4	<0.5	3.9
MW-105	UG/L	9/24/2002	<100	1.4	<1	<1			<1	<10000	<10	<1	<1	<3		6.4	25		4.9	1.4	14
MW-105	UG/L	6/30/2004	270	<5	<5	<5			<5	<100	<5	<5	<5	22		5.4	15		11	<5	7.2
MW-105	UG/L	10/6/2005	300	<0.5	<1	<1	<1	<1	<1	25	<10	<1	<1	6.5		3.7	10		5.8	0.58	1.4
MW-105	UG/L	10/6/2005	320	<0.5	<1	<1	<1	<1	<1	31	<10	<1	<1	4.5		3.9	10		5.7	0.55	1.4
MW-105	UG/L	2/15/2006	205	<1	<5	<5	<5	<5	<1	27	<5	<5	<5	4.4		3.2	8.8		5.7	<5	<5
MW-105	UG/L	2/15/2006	204	<1	<5	<5	<5	<5	<1	27	<5	<5	<5	4		3	8.8		5.2	<5	<5
MW-105	UG/L	8/1/2006	320	<2	<2	<2	<2	<2	<5	51	<5	<2	<2	6		3.9	9.5		3.9	<2	<5
MW-105	UG/L	8/1/2006	330	<2	<2	<2	<2	<2	<5	57	<5	<2	<2	5.4		3.8	10		3.9	<2	<5
MW-105	UG/L	11/8/2006	230	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	17		4.1	8.9		3.8	<2	<5
MW-105	UG/L	11/8/2006	230	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	16		4.2	8.9		3.8	<2	<5
MW-105	UG/L	2/7/2007	160	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	19		4.8	12		4.2	<2	<5
MW-105	UG/L	2/7/2007	160	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	15		4.3	12		3.7	<2	<5
MW-105	UG/L	5/9/2007	150	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	12		2.7	7.5		2.6	0.31	0.59
MW-105	UG/L	5/9/2007	190	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	12		2.8	7.5		2.6	0.34	0.57
MW-105	UG/L	8/7/2007	250	<2	<2	<2	<2	<2	0.32	<50	<5	<2	<2	23		5.6	11		3.7	0.6	1.1
MW-105	UG/L	11/5/2007	180	0.35	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	0.56	<0.23	<0.26	19		5.5	9.6		3.3	0.53	1.2
MW-105	UG/L	2/5/2008	170	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2	25		6.9	11		2.6	1.1	2.3
MW-105	UG/L	2/5/2008	190	1.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	24		6.5	10		2.6	1.1	2.3
MW-105	UG/L	1/15/2009	160	0.85	<2	<2	<2	<2	<5	<50	<5	<2	<2	41		3.2	10		2.6	1	2.6
MW-105	UG/L	1/15/2009	180	0.71	<2	<2	<2	<2	<5	<50	<5	<2	<2	35		2.9	9		2.5	0.86	2.3
MW-105	UG/L	4/22/2009	120	0.66	<2	<2	<2	<2	<5	<50	<5	<2	<2	22		3	9.5		2.4	1.2	1.9
MW-105	UG/L	4/22/2009	100	0.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	16		2.1	7.3		1.7	1	1.3
MW-106	UG/L	12/20/1995	790	12	3.5	10										15	33				
MW-106	UG/L	7/31/1996	600	14	2.2	9			3.6					<0.3		17	26		<0.3	<0.3	0.98
MW-106	UG/L	12/17/1996	360	3.1	<2	<2			<2		<2	<2	<2	<2		26	63		<2	<2	<4
MW-106	UG/L	1/20/1998	800	24	<5	8.1			<5		<10	<5	<5	<5		10	46		<5	<5	<10
MW-106	UG/L	8/20/1998	1000	27	<5	84			<5		<10	<5	<5	<5		5.8	430		<5	<5	<10
MW-106	UG/L	1/27/1999	1100	21000	<5	8.5			<5		<10	<5	<5	<5		<5	47		<5	<5	<10
MW-106	UG/L	7/19/1999	890	18	<1	7.7			<1		<10	<1	<1	<1		6.4	39		1.7	<0.5	<0.5
MW-106	UG/L	1/14/2000	1000	4.1	<1	<1			<1		<10	<1	<1	<1		9.6	20		2.2	<0.5	<0.5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-106	UG/L	7/31/2000	<500	5.3	<1	<1			<1		<10	<1	<1	21		21	26		2.7	<0.5	25
MW-106	UG/L	2/6/2001	530	2.3	<1	1.3			<1		<10	<1	<1	<1		25	35		2	<0.5	15
MW-106	UG/L	7/24/2001	470	1.7	<1	<1			<1		<10	<1	<1	<1		23	33		1.8	<0.5	<0.5
MW-106	UG/L	5/7/2002	430	2.4	<1	<1			<1	38000	<10	<1	<1	<1		17	22		1.6	<0.5	15
MW-106	UG/L	9/24/2002	120	3.5	<1	<1			<1	28000	<10	<1	<1	<1		24	24		2.1	<0.5	21
MW-106	UG/L	7/1/2004	260	2.3J	0.77	1.1			<5	<100	<5	<5	<5	<5		21	15		2J	<5	<5
MW-106A	UG/L	8/2/2006	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		21	13		<2	<2	10
MW-106A	UG/L	11/9/2006	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	14		<2	<2	7
MW-106A	UG/L	2/8/2007	270	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		20	15		<2	<2	13
MW-106A	UG/L	5/10/2007	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2		12	9.9		0.6	<2	7.9
MW-106A	UG/L	8/9/2007	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2		14	12		0.83	<2	12
MW-106A	UG/L	11/7/2007	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32		9.5	11		0.7	<0.28	9.9
MW-106A	UG/L	2/5/2008	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2		7.8	10		0.73	<2	10
MW-106A	UG/L	1/19/2009	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		11	13		0.99	<2	6.3
MW-106A	UG/L	4/23/2009	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2		6.3	5.5		0.82	<2	10
MW-106A	UG/L	3/5/2010	590	8.4	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	3.5		<1.0	<0.50	<1.0
MW-106A	UG/L	5/13/2010	460	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	<1.0		<1.0	<0.50	21
MW-106A	UG/L	8/6/2010	450	12	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	1.0		1.2	<0.50	25
MW-106A	UG/L	11/4/2010	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	8.8
MW-106A	UG/L	2/3/2011	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	4/19/2011	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	6.9
MW-106A	UG/L	8/25/2011	540	0.51	<0.50	<0.50	<1.0	<0.50	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
MW-106A	UG/L	11/14/2011	440	0.87	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	2/3/2012	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11
MW-107	UG/L	12/21/1995	<500	16	0.99	0.77										6.5	28				
MW-107	UG/L	7/31/1996	600	31	4.4	6.6			110					<0.3		19	31		<0.3	<0.3	1.1
MW-107	UG/L	12/17/1996	380	22	<5	<5			<2		<5	<5	<5	<5		33	80		<5	<5	<10
MW-107	UG/L	1/20/1998	830	42	<5	<5			<5		<10	<5	<5	<5		47	120		<5	<5	<10
MW-107	UG/L	8/20/1998	830	28	<5	<5			<5		<10	<5	<5	<5		25	98		<5	<5	<10
MW-107	UG/L	1/27/1999	1100	36	<5	<5			<5		<10	<5	<5	<5		44	100		<5	<5	<10
MW-107	UG/L	7/19/1999	820	38	<5	<5			<5		<50	<5	<5	<5		77	120		<5	<2.5	<2.5
MW-107	UG/L	1/12/2000	1700	87	<1	7.8			<1		<10	<1	<1	<1		110	120		1.6	<0.5	<0.5
MW-107	UG/L	7/31/2000	1700	250	<5	20			<5		<50	<5	<5	<5		59	43		8.3	<2.5	53
MW-107	UG/L	2/6/2001	2100	180	<1	4			<1		<10	<1	<1	<1		4.5	45		20	<0.5	21
MW-107	UG/L	7/26/2001	2000	220	<1	38			<2		<10	<1	<1	<1		13	33		33	<0.5	<0.5
MW-107	UG/L	5/9/2002	2100	310	<2	3			<2	26000	<20	<2	<2	<2		5.7	8.8		21	<1	30
MW-107	UG/L	9/25/2002	2200	770	<2	5.7	<0.5	<0.5	<2	20000	<20	<2	<2	<2		<2	5.8		30	<1	28
MW-107	UG/L	7/1/2004									2J	<5	<5	<5		<5	<5		14	<5	12
MW-107A	UG/L	8/2/2006	770	3.7	<2	<2	3.4	<2	<5	<50	<5	<2	<2	<2		2.4	3.9		<2	<2	<5
MW-107A	UG/L	11/9/2006	780	24	<2	4.7	9.1	<2	<5	<50	<5	<2	<2	<2		5.3	6.2		<2	<2	<5
MW-107A	UG/L	2/8/2007	500	80	<2	21	25	<2	<5	<50	7.4	<2	<2	<2		7.4	9.6		<2	<2	<5
MW-107A	UG/L	5/10/2007	670	42	1	14	17	<2	<5	21	6	<2	0.29	<2		6	6.6		<2	<2	2
MW-107A	UG/L	8/9/2007	1000	61	2	15	41	<2	<5	18	8.5	<2	0.33	<2		9.5	8.8		0.31	<2	2.3
MW-107A	UG/L	11/7/2007	1500	44	4.2	16	26	<0.3	<0.32	35	11	<0.23	0.49	<0.32		9.4	6.4		0.3	<0.28	4.4
MW-107A	UG/L	2/5/2008	2800	19	3	3	12	<2	<5	37	3.9	<2	0.38	<2		9.2	5.6		0.29	<2	5
MW-107A	UG/L	1/19/2009	1200	12	1.9	1.6	9.6	0.38	<5	62	1.3	<2	0.27	<2		7.5	7.2		<2	<2	1.8



Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-107A	UG/L	1/19/2009	1100	13	1.9	1.5	9.9	0.43	<5	66	1.1	<2	0.29	<2		7.3	6.8		<2	<2	2
MW-107A	UG/L	4/23/2009	2400	79	1.2	13	91	0.47	<5	66	7.5	3	2.7	<2		11	9.4		<2	<2	1.3
MW-107A	UG/L	4/23/2009	1300	74	1.1	13	94	0.47	<5	67	6.6	3.2	2.8	<2		10	8.5		<2	<2	1.3
MW-107A	UG/L	3/5/2010	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6.8		<1.0	<0.50	<1.0
MW-107A	UG/L	3/5/2010	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2.0	<1.0	<1.0		4.7	4.8		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5.9		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	150	39		1.3	<1.0	<10	24	1.9	<1.0	<1.0		7.5	10		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	160	39		1.3	<1.0	<10	29	1.9	<1.0	<1.0		7.0	9.5		<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1.0	<1.0	7.5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1.0	<1.0	7.1	5.1	6.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	2/3/2011	740	4.1	2.2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3.3	2.4	3.2	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	4/19/2011	1200	2.6	0.99	1.2	5.2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	4.2	5.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	590	0.95	<0.50	<0.50	1.8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	8/25/2011	480	0.84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.9	1.4	3.0	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/14/2011	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	4.8	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	1/31/2012	500	0.97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7.8	<1.0	<1.0	<0.50	<1.0
MW-201	UG/L	6/1/1988		1000	150	<5															
MW-201	UG/L	9/1/1988		520	210	110															
MW-201	UG/L	12/1/1988		420	65	19															
MW-201	UG/L	3/1/1989		210	27	24															
MW-201	UG/L	6/1/1989		350	<5	<5															
MW-201	UG/L	9/1/1989		830	100	32															
MW-201	UG/L	12/1/1989		510	76	24															
MW-201	UG/L	3/1/1990		350	38	29															
MW-201	UG/L	6/1/1990		820	49	84															
MW-201	UG/L	9/1/1990		340	15	20															
MW-201	UG/L	12/1/1990		240	12	7															
MW-201	UG/L	3/1/1991		500	<5	<5															
MW-201	UG/L	6/1/1991		530	<5	<5															
MW-201	UG/L	9/1/1991		370	<5	<5															
MW-201	UG/L	12/1/1991		340	10	9															
MW-201	UG/L	6/1/1992		25	<5	<5															
MW-201	UG/L	9/1/1992		350	<5	<5															
MW-201	UG/L	12/1/1992		1150	<5	<5															
MW-201	UG/L	3/1/1993		560	77	<50															
MW-201	UG/L	12/1/1994		1300	66	500															
MW-201	UG/L	3/1/1995		290	<5	<5															
MW-201	UG/L	9/1/1995		1100	28	130															
MW-201	UG/L	12/13/1995	9000	440	42	120								58		1.7	44		9.4	4.4	
MW-201	UG/L	7/31/1996	<100	480	20	32			<10					110		<0.3	34		9.4	2.7	<0.3
MW-201	UG/L	12/17/1996	3700	110	12	96			<10		<10	140	28	210		<10	89		<10	<10	<20
MW-201	UG/L	1/21/1998	2600	250	14	87			<5		11	20	9.9	160		5.5	71		9.9	<5	<10
MW-201	UG/L	8/18/1998	2600	440	8.6	20					11	<5	<5	16		<5	63		6.3	<5	<10
MW-201	UG/L	7/19/1999	2800	160	29	69			<5		<50	53	15	40		12	63		9.3	<2.5	<2.5
MW-201	UG/L	1/12/2000	5100	520	14	53			<6		<50	32	<5	<5		<5	43		<5	<2.5	<2.5
MW-201	UG/L	8/4/2000	2900	570	15	61			<7		<10	33	<5	<5		<5	76		<5	<2.5	<2.5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-201	UG/L	2/9/2001	2200	310	12	130			<8		<100	24	<10	<10		<10	100		<10	<5	<5
MW-201	UG/L	7/26/2001	3200	180	9.6	56			<10		<100	17	2.5	<10		6.8	57		23	<5	<10
MW-201	UG/L	5/9/2002	1800	120	6.6	45			5.1	<20000	<20	5.6	3.8	<2		4.2	33		<2	<1	1.1
MW-201	UG/L	9/26/2002	890	11	11	68			<1	<10000	<1	12	14	<1		3.3	27		<1	<0.5	1.4
MW-201	UG/L	6/30/2004	1700	120	12	210	58	13	<5	<100	16	5.4	12	<5		<5	21		<5	<5	2J
MW-201	UG/L	10/7/2005	3400	740	37	470	73	18	<5	130	120	33	16	<5		<5	49		<5	34	<2.5
MW-201	UG/L	2/15/2006	1890	128	2.5	15	6.3	<5	<1	20	<5	1.2	<5	<5		<5	8.1		<5	<5	<5
MW-201	UG/L	8/2/2006	1000	73	<2	8.2	4.1	<2	<5	<50	<5	<2	<2	<2		<2	13		<2	<2	<5
MW-201	UG/L	11/9/2006	1100	58	3.4	49	11	2.9	<5	<50	22	4.8	<2	<2		<2	25		<2	<2	<5
MW-201	UG/L	2/7/2007	1100	94	<2	8.6	5.1	<2	<5	<50	<5	<2	<2	<2		<2	25		<2	<2	<5
MW-201	UG/L	5/9/2007	830	47	0.75	4	2.6	<2	<5	<50	<5	<2	<2	<2		<2	38		0.4	0.83	0.67
MW-201	UG/L	8/8/2007	1300	44	0.75	5.1	3.3	<2	<5	<50	<5	0.41	0.42	<2		<2	31		0.37	1	0.9
MW-201	UG/L	11/6/2007	1500	110	3.9	57	30	5.9	<0.32	92	25	6.3	8.4	<0.32		0.91	38		0.52	1.1	1.6
MW-201	UG/L	2/7/2008	670	39	<2	3.2	<2	<2	<5	<50	<5	<2	<2	<2		<2	33		<2	<2	<5
MW-201	UG/L	1/20/2009	1400	97	3.9	17	19	1	<5	44	<5	2.4	1.7	<2		0.6	16		<2	2.1	1.6
MW-201	UG/L	4/28/2009	510	70	1.1	15	1.2	<2	<5	12	<5	0.7	3.5	<2		<2	12		<2	2.2	0.79
MW-202	UG/L	11/1/1993		7700	<500	2600															
MW-202	UG/L	3/1/1995		400	7	29															
MW-202	UG/L	9/1/1995		500	10	48															
MW-202	UG/L	12/1/1995	6500	330	21	51															
MW-202	UG/L	7/31/1996	4800	640	15	<0.5			62					<0.3		0.34	2		0.54	0.58	<0.3
MW-202	UG/L	12/17/1996	7400	890	<50	<50			<20		<50	<50	<50	<50		<50	<50		<50	<50	<10
MW-202	UG/L	1/21/1998	1600	450	<5	19			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-202	UG/L	8/18/1998	3100	280	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-202	UG/L	1/27/1999	2300	76	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-202	UG/L	7/19/1999	2300	36	2.1	3.7			<2		<20	<2	<2	<2		<2	3.3		<2	<1	<1
MW-202	UG/L	1/11/2000	2400	49	<1	2.4			1.2		<10	<1	<1	<1		<1	1.9		2.2	<0.5	<0.5
MW-202	UG/L	2/7/2000	1100	25	<1	<1			<1		<10	<1	<1	<1		<1	2.3		7.3	<0.5	3.3
MW-202	UG/L	8/2/2000	1400	41	<1	<1			<1		<10	<1	<1	<1		<1	4.6		11	<0.5	<0.5
MW-202	UG/L	7/24/2001	1100	38	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.8	<0.5	<0.5
MW-202	UG/L	5/8/2002	1400	330	2.9	2.1			16	66000	<10	<1	<1	<1		<1	<1		1.2	<0.5	<0.5
MW-202	UG/L	9/26/2002	1000	170	7.8	14			12	59000	<50	<5	<5	<5		<5	<5		<5	<2.5	<2.5
MW-203	UG/L	6/1/1988		46	<5	<5															
MW-203	UG/L	9/1/1988		76	<5	<5															
MW-203	UG/L	12/1/1988		64	<5	<5															
MW-203	UG/L	3/1/1989		110	<5	<5															
MW-203	UG/L	6/1/1989		110	<5	<5															
MW-203	UG/L	9/1/1989		80	<5	5															
MW-203	UG/L	12/1/1989		100	<5	<5															
MW-203	UG/L	3/1/1990		90	<5	<5															
MW-203	UG/L	6/1/1990		88	2	7															
MW-203	UG/L	9/1/1990		130	<5	9															
MW-203	UG/L	12/1/1990		94	<5	7															
MW-203	UG/L	3/1/1991		100	<5	<5															
MW-203	UG/L	6/1/1991		100	<5	<5															
MW-203	UG/L	9/1/1991		140	<5	<5															
MW-203	UG/L	12/1/1991		130	<5	<5															

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-203	UG/L	3/1/1992		120	<5	<5															
MW-203	UG/L	6/1/1992		85	<5	<5															
MW-203	UG/L	9/1/1992		46	<5	<5															
MW-203	UG/L	12/1/1992		64	<5	<5															
MW-203	UG/L	3/1/1993		69	<5	<5															
MW-203	UG/L	5/1/1993		86	<5	<5															
MW-203	UG/L	5/25/1993		86	<5	<5															
MW-203	UG/L	9/1/1993		40	<5	<5															
MW-203	UG/L	12/1/1994		39	<5	<5															
MW-203	UG/L	3/1/1995		27	<5	<5															
MW-203	UG/L	9/1/1995		28	<2	<2															
MW-203	UG/L	12/13/1995	640	37	1	12										4.5	40		0.61		1.4
MW-203	UG/L	7/31/1996	500	43	2	1.8			<20					<0.3		1.7	22		0.34	<0.3	2
MW-203	UG/L	12/17/1996	160	30	<1	<1			<2		<1	<1	<1	<1		<1	<1		<1	<1	<2
MW-203	UG/L	1/20/1998	250	24	<5	<5			<5		<10	<5	<5	<5		<5	28		<5	<5	<10
MW-203	UG/L	8/20/1998	290	17	<5	<5			<5		<10	<5	<5	<5		<5	35		<5	<5	<10
MW-203	UG/L	1/27/1999	330	12	<5	<5			<5		<10	<5	<5	<5		<5	35		<5	<5	<10
MW-203	UG/L	7/19/1999	<500	16	<1	<1			<1		<10	<1	<1	<1		1.9	24		<1	<0.5	<0.5
MW-203	UG/L	1/12/2000	<500	7.8	<1	<1			1		<10	<1	<1	<1		<1	14		<1	0.53	<5
MW-203	UG/L	7/31/2000	<500	97	<1	<1			<5		<10	<1	<1	<1		<1	16		<1	<0.5	0.51
MW-203	UG/L	2/6/2001	<500	13	<1	<1			<1		<10	<1	<1	<1		1.6	25		<1	<0.5	1.1
MW-203	UG/L	7/24/2001	180	14	<1	<1			<1		<10	<1	<1	<1		1.8	24		<1	<0.5	8.3
MW-203	UG/L	5/8/2002	150	8.7	<1	<1			<1	30000	<10	<1	<1	<2		1.7	21		<1	<0.5	0.53
MW-203	UG/L	9/25/2002	160	11	<1	<1			<1	25000	<10	<1	<1	<3		2.5	27		<1	<0.5	1.1
MW-203	UG/L	7/1/2004	270	9.2	0.5J	0.75	<0.5	<0.5	<5	<100	<5	<5	<5	<5		4J	24		<5	<5	<5
MW-203	UG/L	8/2/2006	240	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		4.4	18		<2	<2	11
MW-203	UG/L	11/9/2006	260	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		4.8	20		<2	<2	10
MW-203	UG/L	2/8/2007	150	2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		3.4	21		<2	<2	9.7
MW-203	UG/L	5/10/2007	170	1	<2	<2	<2	<2	0.7	28	<5	<2	<2	<2		2.8	14		0.75	<2	7.8
MW-203	UG/L	8/9/2007	270	0.88	<2	<2	<2	<2	0.59	27	<5	<2	<2	<2		2.4	16		0.77	<2	8.5
MW-203	UG/L	11/7/2007	65	0.78	<0.36	<0.25	<0.6	<0.3	0.69	28	<0.41	<0.23	<0.26	<0.32		2.5	18		0.76	<0.28	8
MW-203	UG/L	2/5/2008	87	1.4	<2	<2	<2	<2	0.63	32	<5	<2	<2	<2		2.4	19		0.77	<2	8.7
MW-203	UG/L	1/19/2009	65	0.53	<2	<2	<2	<2	0.84	40	<5	<2	<2	<2		3	20		0.92	<2	7.6
MW-203	UG/L	4/23/2009	69	0.63	<2	<2	<2	<2	3.1	36	<5	<2	<2	<2		1.8	12		0.58	<2	4.9
MW-204	UG/L	6/1/1988		19	<5	<5															
MW-204	UG/L	9/1/1988		6	<5	<5															
MW-204	UG/L	12/1/1988		33	<5	<5															
MW-204	UG/L	3/1/1989		39	<5	<5															
MW-204	UG/L	6/1/1989		76	<5	<5															
MW-204	UG/L	9/1/1989		64	<5	<5															
MW-204	UG/L	12/1/1989		160	<5	<5															
MW-204	UG/L	3/1/1990		9	<5	<5															
MW-204	UG/L	6/1/1990		2	<5	<5															
MW-204	UG/L	9/1/1990		25	<5	<5															
MW-204	UG/L	12/1/1990		<5	<5	<5															
MW-204	UG/L	3/1/1991		<5	<5	<5															
MW-204	UG/L	6/1/1991		<5	<5	<5															
MW-204	UG/L	9/1/1991		27	<5	<5															

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-204	UG/L	12/1/1991		47	<5	<5															
MW-204	UG/L	3/1/1992		90	<5	<5															
MW-204	UG/L	6/1/1992		110	71	<5															
MW-204	UG/L	9/1/1992		90	20	<5															
MW-204	UG/L	12/1/1992		2700	3700	<5															
MW-204	UG/L	4/1/1993		130	28	21															
MW-204	UG/L	5/1/1993		780	<50	<50															
MW-204	UG/L	5/25/1993		780	<50	<50															
MW-204	UG/L	12/1/1994		5500	630	190															
MW-204	UG/L	3/1/1995		5000	77	120															
MW-204	UG/L	9/1/1995		6900	4700	650															
MW-204	UG/L	12/13/1995	12000000	880	670	240															
MW-204	UG/L	8/1/1996	14000	1400	1300	520			32					<1		<1	2.9		3.3	7.2	5.2
MW-204	UG/L	12/17/1996	2100	750	58	<50			<200		<50	<50	<50	<50		<50	<50		<50	<50	<100
MW-204	UG/L	1/21/1998	6000	2300	79	210			5.1		65	90	23	<5		<5	<5		<5	<5	9
MW-204	UG/L	8/21/1998	11000	5100	510	520			<50		<100	200	<50	<50		<50	<50		<50	150	<100
MW-204	UG/L	1/28/1999	10000	3300	120	530			5.2		94	250	61	<50		<50	<50		<50	<50	12
MW-204	UG/L	7/19/1999	1900	560	<10	110			27		<100	47	11	<10		<10	<10		<10	<5	<5
MW-204	UG/L	1/11/2000	2100	270	<10	<10			<10		<100	<10	<10	<10		<10	<10		<10	<5	<5
MW-204	UG/L	8/3/2000	1300	400	<5	12			<5		<10	<5	<5	<5		<5	<5		<5	<2.5	<2.5
MW-204	UG/L	2/8/2001	1200	55	1.4	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-204	UG/L	7/24/2001	1200	200	<1	12			1.6		<10	<1	<1	<1		<1	1.5		4.7	<0.5	<0.5
MW-204	UG/L	5/9/2002	1400	250	37	120			<2	170000	<20	26	8.9	<2		<2	2.7		3.5	<1	3.5
MW-204	UG/L	9/26/2002	560	67	2.5	19			<2	200000	<20	22	7.7	<2		<2	3.6		<2	<1	3.4
MW-204	UG/L	6/30/2004	260	30	<5	7.6	6	<0.5	<5	150	4J	6.8	2J	<5		<5	4J		<5	<5	<5
MW-204	UG/L	10/7/2005	340	5.7	<1	4.2	2.1	<1	<1	90	<10	2.3	1.2	<1		<1	3.4		<1	1.6	<0.5
MW-204	UG/L	2/15/2006	111	1.5	<5	2.5	1.4	<5	<1	91	<5	2.6	1.2	<5		<5	2.6		<5	<5	<5
MW-204	UG/L	8/1/2006	260	<2	<2	9.5	8.1	<2	<5	67	<5	14	6.7	<2		<2	3.9		<2	<2	<5
MW-204	UG/L	11/10/2006	81	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.5		<2	<2	<5
MW-204	UG/L	2/7/2007	360	4.9	<2	11	14	<2	<5	64	5.6	25	16	<2		<2	2.8		<2	<2	<5
MW-204	UG/L	11/6/2007	53	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	0.65	0.42	<0.32		<0.27	2.2		<0.27	0.4	<0.3
MW-204	UG/L	2/4/2008	37	<2	<2	<2	<2	<2	<5	71	0.42	0.38	<2	<2		<2	1.6		<2	0.37	<5
MW-204	UG/L	4/23/2009	110	<2	<2	<2	<2	<2	<5	71	0.51	0.74	0.84	<2		<2	5.9		<2	<2	<5
MW-205	UG/L	6/1/1988		13	<5	<5															
MW-205	UG/L	9/1/1988		27	<5	<5															
MW-205	UG/L	12/1/1988		120	<5	<5															
MW-205	UG/L	3/1/1989		40	<5	<5															
MW-205	UG/L	6/1/1989		120	<5	<5															
MW-205	UG/L	9/1/1989		81	<5	<5															
MW-205	UG/L	12/1/1989		170	<5	<5															
MW-205	UG/L	3/1/1990		140	<5	<5															
MW-205	UG/L	6/1/1990		56	<5	<5															
MW-205	UG/L	9/1/1990		45	<5	<5															
MW-205	UG/L	12/1/1990		47	<5	<5															
MW-205	UG/L	3/1/1991		40	<5	<5															
MW-205	UG/L	6/1/1991		<5	<5	<5															
MW-205	UG/L	9/1/1991		43	<5	<5															
MW-205	UG/L	12/1/1991		85	<5	<5															

**Table III**  
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**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-205	UG/L	3/1/1992		35	<5	<5															
MW-205	UG/L	6/1/1992		6	<5	<5															
MW-205	UG/L	9/1/1992		5	<5	<5															
MW-205	UG/L	12/1/1992		10	<5	<5															
MW-205	UG/L	3/1/1993		<5	<5	<5															
MW-205	UG/L	5/1/1993		22	<5	<5															
MW-205	UG/L	5/25/1993		22	<5	<5															
MW-205	UG/L	11/1/1993		32	<5	<5															
MW-205	UG/L	12/1/1994		<5	<5	<5															
MW-205	UG/L	3/1/1995		<5	<5	<5															
MW-205	UG/L	9/1/1995		5.3	<2	<2															
MW-205	UG/L	12/13/1995	2100	110	1.3	18								2.8		5.3	51		7.3	2	
MW-205	UG/L	7/31/1996	<100	5.1	<2	<2			<10					3.5		<0.3	30		2.8	<0.3	<0.3
MW-205	UG/L	12/16/1996	270	<2	<2	<2			2		<2	<2	<2	<2		<2	35		<2	<2	<4
MW-205	UG/L	1/20/1998	190	<5	<5	<5			<5		<10	<5	<5	<5		<5	27		<5	<5	<10
MW-205	UG/L	8/21/1998	17	<5	<5	<5			<5		<10	<5	<5	<5		<5	32		<5	<5	<10
MW-205	UG/L	1/26/1999	220	6.87	<5	<5			<5		<10	<5	<5	<5		<5	26.1		<5	<5	<10
MW-205	UG/L	7/19/1999	<500	10	<1	<1			<1		<10	<1	<1	<1		1.8	23		<1	<0.5	<0.5
MW-205	UG/L	1/11/2000	790	26	1.3	2			<1		<10	<1	<1	<1		<1	13		<1	<0.5	13
MW-205	UG/L	8/2/2000	<500	11	<1	<1					<10	<1	<1	<1		<1	6		<1	<0.5	<0.5
MW-205	UG/L	2/7/2001	540	37	<1	12			<1		<10	1.7	8.5	<1		<1	5.2		<1	<0.5	0.96
MW-205	UG/L	7/26/2001	380	21	<1	1.1			<1		<10	<1	<1	<1		<1	17		<1	<0.5	<0.5
MW-205	UG/L	5/8/2002	260	9.7	<1	<1			<1	<10000	<10	<1	<1	<1		<1	22		<1	<0.5	0.65
MW-205	UG/L	9/25/2002	300	24	<1	<1			<1	4000	<10	<1	1.1	<1		<1	10		<1	<0.5	4.7
MW-205	UG/L	6/30/2004	<200	3J	<5	<5	<0.5	<0.5	<5	<100	<5	<5	<5	<5			6.5		<5	<5	<5
MW-205	UG/L	10/6/2005	850	55	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-205	UG/L	2/15/2006	411	35	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	19		<5	<5	<5
MW-205	UG/L	8/2/2006	560	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	35		<2	<2	<5
MW-205	UG/L	11/8/2006	360	7	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	48		<2	<2	<5
MW-205	UG/L	2/7/2007	150	24	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	32		<2	<2	<5
MW-205	UG/L	5/9/2007	190	7.4	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		0.85	40		<2	0.54	0.41
MW-205	UG/L	8/8/2007	290	6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	29		<2	1.2	0.65
MW-205	UG/L	11/6/2007	330	12	<0.36	<0.25	<0.6	<0.3	<0.32	12	<0.41	<0.23	<0.26	<0.32		0.7	23		<0.27	1.8	1.5
MW-205	UG/L	2/5/2008	260	4.9	<2	<2	<2	<2	<5	9.2	<5	<2	<2	<2		<2	14		<2	2	1.8
MW-205	UG/L	1/19/2009	<380	150	0.86	2	<4	<4	<10	13	<10	<4	<4	<4		<4	3		<4	<4	<10
MW-205	UG/L	4/22/2009	<320	96	<2	0.38	<2	<2	<5	33	<5	<2	<2	<2		<2	0.6		<2	<2	<5
MW-206	UG/L	6/1/1988		5800	2400	2100															
MW-206	UG/L	9/1/1988		4200	1000	2000															
MW-206	UG/L	12/1/1988		4300	920	2100															
MW-206	UG/L	3/1/1989		2700	3200	2400															
MW-206	UG/L	6/1/1989		3100	1200	2300															
MW-206	UG/L	9/1/1989		4500	620	2400															
MW-206	UG/L	12/1/1989		3200	1000	2000															
MW-206	UG/L	3/1/1990		3700	1700	2600															
MW-206	UG/L	6/1/1990		3700	960	2000															
MW-206	UG/L	9/1/1990		5100	2100	2300															
MW-206	UG/L	12/1/1990		7100	2100	2400															
MW-206	UG/L	3/1/1991		4900	2600	2200															

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Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-206	UG/L	6/1/1991		5220	1080	2400															
MW-206	UG/L	9/1/1991		4500	2100	2000															
MW-206	UG/L	12/1/1991		3400	720	2500															
MW-206	UG/L	3/1/1992		2000	470	2500															
MW-206	UG/L	6/1/1992		3200	420	2100															
MW-206	UG/L	9/1/1992		9900	1400	3200															
MW-206	UG/L	12/1/1992		13000	2000	6000															
MW-206	UG/L	12/1/1994		8400	4900	1800															
MW-206	UG/L	3/1/1995		9000	720	2000															
MW-206	UG/L	9/1/1995		6200	800	1600															
MW-206	UG/L	12/13/1995	12000	110	16	32															
MW-206	UG/L	7/31/1996	33000	570	110	420			510					<0.3		<0.3	20		8.8	5.8	<0.3
MW-206	UG/L	12/18/1996	8200	2200	<100	1200			<20		130	190	140	<100		<100	<100		<100	<100	<200
MW-206	UG/L	1/21/1998	13000	1500	290	1600			<5		59	35	12	<5		<5	130		<5	<5	<10
MW-206	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-501	UG/L	3/1/1995		4200	230	1000															
MW-501	UG/L	9/1/1995		2400	270	<200															
MW-501	UG/L	12/13/1995	69000	1600	100	880											8.5		1.6	3.2	
MW-501	UG/L	7/31/1996	18000	1700	73	220			180					<0.3		<0.3	7.2		0.81	1.3	<0.3
MW-501	UG/L	12/18/1996	6800	1200	<50	510			<10		<50	310	130	<50		<50	<50		<50	<50	<100
MW-501	UG/L	1/21/1998	950	260	<5	11			<5		<10	9.3	<5	<5		<5	<5		<5	<5	<10
MW-501	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-501	UG/L	1/26/1999	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-501A	UG/L	8/3/2006	24000	6300	32	170	50	6.1	700	84	32	6.2	25	<2		<2	<2		<2	<2	<5
MW-501A	UG/L	11/10/2006	13000	3300	<40	100	<40	<40	1100	<1000	<100	<40	<40	<40		<40	<40		<40	<40	<100
MW-501A	UG/L	2/12/2007	<13000	3800	<40	130	<40	<40	1100	<1000	<100	<40	44	<40		<40	<40		<40	<40	<100
MW-501A	UG/L	5/11/2007	9100	2000	<100	84	<100	<100	640	<2500	<250	<100	24	<100		<100	<100		<100	<100	<250
MW-501A	UG/L	8/10/2007	7100	1100	15	49	28	3.1	630	54	<50	3.6	27	<20		<20	<20		<20	<20	<50
MW-501A	UG/L	11/8/2007	7700	1400	11	13	13	<6	410	<98	<8.2	<4.6	17	<6.4		<5.4	<6.4		<5.4	<5.6	<6
MW-502	UG/L	6/1/1988		950	79	62															
MW-502	UG/L	9/1/1988		1300	180	2800															
MW-502	UG/L	12/1/1988		6500	860	1500															
MW-502	UG/L	3/1/1989		5300	1200	1900															
MW-502	UG/L	9/1/1994		9800	860	1900															
MW-502	UG/L	12/1/1994		8400	1600	1600															
MW-502	UG/L	3/1/1995		18000	480	2100															
MW-502	UG/L	9/1/1995		15000	690	3300															
MW-502	UG/L	12/13/1995	220000	6900	950	3300											6.9		0.89	6.1	
MW-502	UG/L	7/13/1996	110000	13000	400	1800			1000					<0.3		<0.3	6.8		<0.3	12	<0.3
MW-502	UG/L	12/18/1996	30000	11000	<500	2100			<10		<500	<500	<500	<500		<500	<500		<500	<500	<1000
MW-502	UG/L	1/22/1998	24000	7800	130	1300			70000		320	300	70	<25		<25	<25		<25	<25	<50
MW-502	UG/L	8/19/1998	86000	12000	100	1400			290000		280	340	60	<5		<5	10		<5	<5	<10
MW-502	UG/L	1/26/1999	120000	8800	80.4	1030			119000		255	179	47.1	<5		<5	10.4		<5	<5	<10
MW-502	UG/L	7/19/1999	48000	11000	<5000	<5000			92000		<50000	<5000	<5000	<5000		<5000	<5000		<5000	<2500	<2500
MW-502	UG/L	1/13/2000	25000	8100	<1000	<1000			8700		<10000	<1000	<1000	<1000		<1000	<1000		<1000	<500	<500
MW-502	UG/L	8/2/2000	23000	6300	100	250			4500		160	<100	<100	<100		<100	<100		<100	<50	<50

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Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-502	UG/L	2/7/2001	18000	5000	82	230			6500		<500	<50	<50	<50		<50	<50		<50	<50	<25
MW-502	UG/L	7/25/2001	24000	6500	170	400			18000		<500	89	<50	<50		<50	<50		<50	<50	<25
MW-502	UG/L	5/9/2002	25000	4300	<200	390			14000	<2000000	<2000	<200	<200	<200		<200	<200		<200	<100	<100
MW-502	UG/L	9/26/2002	11000	4000	<100	540			9400	<1000000	<1000	100	<100	<100		<100	<100		<100	<50	<50
MW-502	UG/L	10/5/2005	15000	900	<100	430	110	<100	15000	<1000	<1000	<100	110	<100		<100	<100		<100	<50	<50
MW-502	UG/L	2/14/2006	47600	1280	32	616	182	<50	29300	<100	183	86	139	<50		<50	<50		<50	<50	<50
MW-502	UG/L	8/4/2006	20000	2500	38	160	730	<50	29000	790	130	160	98	<2		<2	<2		<2	<2	<5
MW-502	UG/L	11/10/2006	35000	1800	51	820	250	<40	19000	<1000	290	110	240	<40		<40	<40		<40	<40	<100
MW-502	UG/L	2/9/2007	15000	2200	<400	500	560	<400	23000	<10000	<1000	<400	<400	<400		<400	<400		<400	<400	<1000
MW-502	UG/L	5/11/2007	25000	4000	59	500	720	<200	29000	<5000	170	400	250	<200		<200	<200		<200	<200	<500
MW-502	UG/L	8/10/2007	<30000	3300	50	420	480	<100	34000	610	92	200	200	<100		<100	<100		<100	<100	<250
MW-502	UG/L	11/8/2007	19000	2100	<72	530	140	<60	16000	<980	230	50	100	<64		<54	<64		<54	<56	<60
MW-502	UG/L	2/11/2008	26000	3900	52	430	120	<200	27000	<5000	270	30	98	<200		<200	<200		<200	<200	<500
MW-503	UG/L	6/1/1988		600	140	340															
MW-503	UG/L	9/1/1988		800	280	300															
MW-503	UG/L	12/1/1988		1500	570	380															
MW-503	UG/L	3/1/1989		400	190	360															
MW-503	UG/L	6/1/1989		600	340	630															
MW-503	UG/L	9/1/1989		990	550	200															
MW-503	UG/L	12/1/1989		270	180	180															
MW-503	UG/L	3/1/1990		310	140	140															
MW-503	UG/L	6/1/1990		34	24	110															
MW-503	UG/L	9/1/1990		170	110	140															
MW-503	UG/L	12/1/1990		2100	1300	100															
MW-503	UG/L	3/1/1991		900	650	250															
MW-503	UG/L	6/1/1991		1040	700	330															
MW-503	UG/L	12/1/1992		3300	750	340															
MW-503	UG/L	3/1/1993		2900	400	<250															
MW-503	UG/L	12/1/1994		240	22	66															
MW-503	UG/L	3/1/1995		390	55	100															
MW-503	UG/L	9/1/1995		530	93	130															
MW-503	UG/L	12/13/1995	8200	340	79	190										1.2	38		15	6.5	1.4
MW-503	UG/L	7/31/1996	5100	150	49	25			<10					90		<0.3	36		15	3.1	<0.3
MW-503	UG/L	12/18/1996	4600	210	19	140			<20		28	63	23	14		<10	40		<10	<10	<20
MW-503	UG/L	1/21/1998	3100	210	31	280			<5		17	5.8	14	<5		27	67		9.6	<5	<10
MW-503	UG/L	8/19/1998	960	72	7.9	53					5.3	5	<5	<5		71	41		<5	<5	<10
MW-503B	UG/L	2/9/1999	10000	970	<50	420					<50	<50	<50	<50		150	110		<50	<50	<100
MW-503B	UG/L	7/19/1999	7800	630	<20	540			<20		<200	<20	<20	<20		250	180		<20	<10	<10
MW-503B	UG/L	1/14/2000	14000	1000	32	870			<20		<200	<20	<20	<20		200	210		<20	<10	<10
MW-503B	UG/L	8/4/2000	5600	610	19	500			<10		23	<10	<10	<10		160	140		<10	<5	<5
MW-503B	UG/L	2/6/2001	5800	250	<20	320			<20		<200	<20	<20	<20		150	84		<20	<10	<10
MW-503B	UG/L	7/25/2001	5700	280	<50	230			<50		<500	<50	<50	<50		57	<50		<50	<25	<25
MW-503B	UG/L	5/9/2002	4500	81	3.5	77			<2	<20000	26	2.5	2.2	<2		23	23		<2	<1	7.7
MW-503B	UG/L	9/26/2002	3300	36	9.6	140			<1	<10000	48	2.5	3.7	<1		16	18		<1	<0.5	10
MW-503B	UG/L	7/1/2004	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5			3J		<5	<5	<5
MW-503B	UG/L	10/5/2005	5400	1100	<20	73	38	<20	<20	<200	<200	<20	<20	<20		<20	<20		<20	<10	<10
MW-503B	UG/L	2/14/2006	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50		<50	<50		<50	<50	<50





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Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-600	UG/L	8/1/1990	380000																		
MW-600	UG/L	2/20/1991	50.2	18000	9200	1300															
MW-600	UG/L	12/13/1995	3500000	23000	40000	18000															
MW-600	UG/L	8/1/1996	210000	14000	15000	3500			<10					<1		<1	3.8		0.36	5.5	<1
MW-600	UG/L	12/19/1996	87000	14000	15000	1800			<10		<500	1800	580	<500		<500	<500		<500	<500	<1000
MW-600	UG/L	1/22/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600	UG/L	1/28/1999	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	7/19/1999	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	1/10/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	7/24/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-600A	UG/L	9/23/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	8/1/1990	360000																		
MW-601	UG/L	2/20/1991	24	12000	4900	1900															
MW-601	UG/L	12/13/1995	3500000	18000	17000	130000															
MW-601	UG/L	8/1/1996	250000	12000	1400	4600			<10					<1		<1	4.4		1.4	2.9	1.9
MW-601	UG/L	12/19/1996	70000	10000	<500	1600			<10		<500	1100	<500	<500		<500	<500		<500	<500	<1000
MW-601	UG/L	1/22/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601	UG/L	1/28/1999	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
MW-601A	UG/L	7/19/1999	42000	18000	<5000	<5000			11000		<50000	<5000	<5000	<5000		<5000	<5000		<5000	<2500	<25000
MW-601A	UG/L	1/13/2000	48000	22000	<1000	<1000			22000		<10000	<1000	<1000	<1000		<1000	<1000		<500	<1000	<500
MW-601A	UG/L	8/3/2000	34000	21000	<200	<200			5600		69	<200	<200	<200		<200	<200		<200	<100	<100
MW-601A	UG/L	2/7/2001	35000	16000	63	97			1200		<500	<50	<50	<50		<50	<50		<50	<25	<25
MW-601A	UG/L	7/24/2001	31000	15000	<100	110			2800		<100	<100	<100	<100		<100	<100		<100	<50	<50
MW-601A	UG/L	5/9/2002	28000	12000	<100	<100			3500	NS	<1000	<100	<100	<100		<100	<100		<100	<50	<50
MW-601A	UG/L	9/26/2002	11000	8000	<100	590			4000	NS	<1000	<100	<100	<100		<100	<100		<100	<50	<50
MW-603	UG/L	12/1/1995	<500	0.98	1.4	0.62															
MW-603	UG/L	7/30/1996	<100	0.6	<0.5	1.4			2					53		<0.3	6.4		3.9	9.5	0.45
MW-603	UG/L	12/16/1996	<100	<5	<5	<5			<2		<5	<5	<5	37		<5	<5		<5	<5	<10
MW-603	UG/L	1/22/1998	<100	<5	<5	<5			<5		<10	<5	<5	59		<5	9		5	<5	<10
MW-603	UG/L	8/19/1998	<100	<5	<5	<5					<10	<5	<5	13		<5	<5		<5	29	<10
MW-603	UG/L	1/27/1999	<100	<5	<5	<5			<5		<10	<5	<5	25		<5	5.3		<5	39	<10
MW-603	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	37		<1	7.4		3	40	<0.5
MW-603	UG/L	1/11/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	56		<1	6.4		3.6	16	<0.5
MW-603	UG/L	7/31/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	95		<1	9.3		6.7	7.2	0.71
MW-603	UG/L	2/7/2001	<500	<0.5	<1	<1			<1		<1	<1	<1	89		2.8	11		8.5	2.7	0.96
MW-603	UG/L	7/24/2001	190	<0.5	<1	<1			<1		<1	<1	<1	110		8.3	15		10	2.9	<0.5
MW-603	UG/L	5/7/2002	210	<1	<2	<2			<2	<20000	<20	<2	<2	170		3.4	9.6		7	<1	<1
MW-603	UG/L	9/24/2002	<100	<1	<2	<2			<2	<20000	<20	<2	<2	210		5.3	14		11	3.2	1.6
MW-603	UG/L	7/1/2004	<200	<5	0.3J	<0.5	<0.5	<0.5	<5	<100	2J	<5	<5	120		3J	12		5.7	3J	<5
MW-603	UG/L	10/6/2005	150	0.82	<1	<1	<1	<1	<1	<10	<10	<1	<1	160		7.3	22		8	12	1.6

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-603	UG/L	2/14/2006	245	<1	<5	<5	<5	<5	1.7	18	<5	<5	<5	103		3.5	17		6	28	<5
MW-603	UG/L	8/1/2006	190	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	150		3.7	22		7.1	8	<5
MW-603	UG/L	11/7/2006	150	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	170		3.3	21		6.3	14	<5
MW-603	UG/L	2/6/2007	120	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	140		2.7	19		6	17	<5
MW-603	UG/L	8/7/2007	<110	0.28	<2	<2	<2	<2	<5	<50	<5	<2	<2	140		2.6	17		5.5	6.4	0.79
MW-603	UG/L	11/5/2007	120	0.31	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	120		2.6	16		5	3.8	1.2
MW-603	UG/L	2/4/2008	120	<2	<2	<2	<2	<2	<5	<1	<5	<2	<2	110		2.5	15		3.9	2.2	<5
MW-603	UG/L	1/13/2009	75	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	74		2.8	17		4.4	5.6	<5
MW-603	UG/L	4/21/2009	59	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	90		2.4	17		3.8	2	0.99
MW-604	UG/L	12/20/1995	1900	160	3.3	7.8															
MW-604	UG/L	7/30/1996	900	73	7.8	<0.5			12.4					<0.3		<0.3	0.98		1.7	1.1	<0.3
MW-604	UG/L	12/17/1996	710	47	<2	<2			<2		<2	<2	<2	<2		<2	<2		<2	<2	<4
MW-604	UG/L	1/22/1998	410	7	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	8/19/1998	370	<5	<5	<5					<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	1/27/1999	230	25	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-604	UG/L	7/19/1999	500	14	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-604	UG/L	1/11/2000	750	21	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	0.99	<0.5
MW-604	UG/L	8/3/2000	560	100	<1	<1			30		<10	<1	<1	<1		<1	8.7		<1	<0.5	
MW-604	UG/L	2/7/2001	1100	110	<5	<5			31		<50	<5	<5	<5		<5	<5		<5	<2.5	6.8
MW-604	UG/L	7/24/2001	1100	67	<1	<1			34		<10	<1	<1	<1		<1	<5		<1	<5	<0.5
MW-604	UG/L	5/8/2002	1400	57	<1	<1			48	NS	<10	<1	<1	<1		<1	<1		<1	<5	5.3
MW-604	UG/L	9/25/2002	970	36	<1	<1			84	NS	<10	<1	1.3	<1		<1	<1		<1	<5	4.8
MW-604	UG/L	11/8/2006	330	7.2	<2	<2	<2	<2	15	65	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	2/7/2007	540	9.8	<2	<2	<2	<2	20	60	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	5/8/2007	480	4.4	0.38	<2	0.81	0.48	18	57	<5	0.48	0.26	<2		<2	<2		<2	<2	0.87
MW-604	UG/L	8/7/2007	290	1.3	<2	<2	0.74	0.46	18	44	<5	0.23	<2	<2		<2	<2		<2	<2	<5
MW-604	UG/L	11/5/2007	500	1.2	0.36	<0.25	0.85	0.49	23	50	0.55	0.41	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	0.69
MW-605	UG/L	12/20/1995	<1000	10	<0.5	<0.5															
MW-605	UG/L	7/31/1996	<100	<0.5	<0.5	<0.5			<20					13		<0.3	<0.3		1.2	<0.3	<0.3
MW-605	UG/L	12/16/1996	<100	<1	<1	<1			<2		<1	<1	<1	11		<1	<1		<1	<1	<2
MW-605	UG/L	1/22/1998	<100	<5	<5	<5			<5		<10	<5	<5	14		<5	<5		<5	<5	<10
MW-605	UG/L	8/19/1998	<100	<5	<5	<5					<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-605	UG/L	1/28/1999	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-605	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	1.6		3.2	<1		<1	<0.5	<0.5
MW-605	UG/L	1/11/2000	<600	<0.5	<1	<1			<1		<10	<1	<1	7		<1	<1		1	<0.5	<0.5
MW-605	UG/L	8/2/2000	<700	<0.5	<1	<1			<1		<10	<1	<1	22		<1	<1		1.6	<0.5	<10
MW-605	UG/L	2/7/2001	<800	<0.5	<1	<1			<1		<10	<1	<1	7.1		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	7/24/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	26		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	5/7/2002	<200	<0.5	<1	<1			<1	<10000	<10	<1	<1	19		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	9/24/2002	<300	<0.5	<1	<1			<1	<10000	<10	<1	<1	13		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	6/30/2004	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<100	<5	<5	<5	5J		<5	<5		<5	<5	<5
MW-605	UG/L	10/5/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	4.3		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	10/5/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	4.5		<1	<1		<1	<0.5	<0.5
MW-605	UG/L	2/14/2006	<50	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	4.2		<5	<5		<5	<5	<5
MW-605	UG/L	2/14/2006	53	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	5.3		<5	<5		<5	<5	<5
MW-605	UG/L	8/1/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.5		<2	<2		<2	<2	<5
MW-605	UG/L	8/1/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	9.2		<2	<2		<2	<2	<5

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-605	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	20		<2	<2		<2	<2	<5
MW-605	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	21		<2	<2		<2	<2	<5
MW-605	UG/L	2/6/2007	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	35		<2	<2		<2	<2	<5
MW-605	UG/L	5/8/2007	38	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	45		<2	1.6		0.74	<2	<5
MW-605	UG/L	5/8/2007	35	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	40		<2	1.6		0.68	<2	<5
MW-605	UG/L	8/7/2007	30	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	37		<2	1.2		0.77	<2	<5
MW-605	UG/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0.26	20		<0.27	0.84		0.53	<0.28	<0.3
MW-605	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	20		<2	1.1		0.62	<2	<5
MW-605	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	21		<2	1.1		0.67	<2	<5
MW-606	UG/L	12/19/1995	<500	<0.5	<0.5	<0.5															
MW-606	UG/L	7/31/1996	<100	<0.5	<0.5	<0.5			<20					<0.3		<0.3	<0.3		<0.3	0.96	<0.3
MW-606	UG/L	12/16/1996	<100	<1	<1	<1			<2		<1	<1	<1	<1		<1	<1		<1	<1	<2
MW-606	UG/L	1/22/1998	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	8/19/1998	170	<5	<5	<5					<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	1/28/1999	<100	<5	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-606	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	1/11/2000	<500	<0.5	<1	<1			1.2		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	8/2/2000	<500	<0.5	<1	<1					<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	7/24/2001	<100	<0.5	<1	<1					<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	5/7/2002	<100	<0.5	<1	<1			<100	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	9/24/2002	<100	<0.5	<1	<1			<100	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
MW-606	UG/L	6/30/2004	<200	<0.5	<0.5	<0.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		<5	<5		<5	<5	<5
MW-606	UG/L	10/5/2005	240	5.6	<1	<1	<1	<1	4.8	42	<10	<1	<1	<1		<1	<1		<1	<0.5	3.2
MW-606	UG/L	2/14/2006	<50	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	<5		<5	<5	<5
MW-606	UG/L	8/1/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	2/6/2007	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	5/8/2007	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	8/7/2007	<50	<2	<2	<2	<2	<2	0.9	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	0.32	<4.9	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
MW-606	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-606	UG/L	4/21/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	12/19/1995	1200	33	35	1.7															
MW-607	UG/L	7/31/1996	900	19	5	2.8			12					<0.3		<0.3	<0.3		0.68	<0.3	1.1
MW-607	UG/L	12/17/1996	1000	21	<1	<1			<2		2	<1	1.7	<1		<1	<1		<1	<1	<2
MW-607	UG/L	1/22/1998	1200	220	<25	<25			400		<50	<25	<25	<25		<25	<25		<25	220	<50
MW-607	UG/L	8/19/1998	260	17	<5	<5			12		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-607	UG/L	1/27/1999	1760	220	<5	<5			6.2		<10	<5	<5	<5		<5	<5		<5	<5	<10
MW-607	UG/L	7/19/1999	1200	260	<5	<5			<5		<50	<5	<5	<5		<5	<5		<5	<2.5	<2.5
MW-607	UG/L	1/11/2000	1200	170	<2	<2			4.5		<20	<2	<2	<2		<2	<2		<2	<1	<1
MW-607	UG/L	7/31/2000	540	110	<2	<2			6.2		<10	<2	<2	<2		<2	<2		<2	<1	1.1
MW-607	UG/L	2/7/2001	50	12	<1	<1			<1		<10	<1	<1	<1		<1	1.1		<1	<0.5	0.55
MW-607	UG/L	7/24/2001	590	13	<1	<1			<1		<10	<1	<1	<1		<1	1.4		<1	<0.5	<0.5
MW-607	UG/L	5/7/2002	490	5.4	<1	<1			<1	91000	<10	<1	<3	<1		<1	1.7		<1	<0.5	<0.5
MW-607	UG/L	9/24/2002	110	<0.5	<1	<1			4.2	76000	<10	<1	<3	<1		<1	2		<1	<0.5	<0.5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-607	UG/L	6/30/2004	540	10	<0.5	<0.5	1.4	<0.5	4J	50J	<5	<5	3J	<5		<5	<5		<5	<5	3J
MW-607	UG/L	10/5/2005	760	1.2	<1	<1	<1	<1	1.7	74	<10	<1	<1	<1		<1	<1		<1	<0.5	1.2
MW-607	UG/L	2/14/2006	373	<1	<5	<5	<5	<5	2.1	57	<5	<5	<5	<5		<5	<5		<5	<5	1
MW-607	UG/L	8/1/2006	350	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	11/7/2006	210	<2	<2	<2	<2	<2	<5	77	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	2/6/2007	590	<2	<2	<2	<2	<2	<5	130	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	5/8/2007	330	<2	<2	<2	<2	<2	2.3	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-607	UG/L	8/7/2007	320	0.5	<2	<2	<2	<2	4	120	<5	<2	<2	<2		<2	<2		0.33	0.53	1.2
MW-607	UG/L	11/5/2007	440	0.5	<0.36	<0.25	<0.6	<0.3	3.1	140	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		0.29	0.38	0.99
MW-607	UG/L	2/4/2008	790	<2	<2	<2	<2	<2	5.6	230	2.8	0.45	<2	<2		<2	<2		0.4	0.53	1.3
MW-701	UG/L	2/4/2011	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	4.3	1.6	9.5	1.7	<1.0	<0.50	<1.0
MW-701	UG/L	4/11/2011	230	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	14	2.3	14	3.8	1.0	<0.50	6.0
MW-701	UG/L	8/30/2011	190	2.5	<0.50	<0.50	<1.0	<0.50	<1.0	19	<1.0	<1.0	<1.0	<1.0	14	2.3	9.0	3.4	<1.0	<0.50	5.2
MW-701	UG/L	8/30/2011	290	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	11	2.0	7.7	2.8	<1.0	<0.50	4.0
MW-701	UG/L	11/16/2011	310	2.5	0.62	1.4	3.5	1.8	<1.0	<10	7.6	3.4	<1.0	1.3	13	<1.0	9.2	4.6	<1.0	<0.50	<1.0
MW-701	UG/L	2/1/2012	300	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	8.9	3.8	14	4.3	<1.0	<0.50	<1.0
MW-702	UG/L	2/4/2011	2300	91	0.74	0.92	<1.0	<0.50	<1.0	<10	5.2	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	4/12/2011	910	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	32	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	1.3	<0.50	1.1
MW-702	UG/L	8/30/2011	260	15	<0.50	<0.50	<1.0	<0.50	<1.0	59	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	1.1
MW-702	UG/L	11/16/2011	1400	99	0.59	0.51	<1.0	<0.50	<1.0	<10	2.9	<1.0	1.0	<1.0	<1.0	<1.0	2.5	<1.0	1.2	<0.50	<1.0
MW-702	UG/L	2/9/2012	1400	480	1.3	0.65	<1.0	<0.50	<1.0	<10	3.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-702	UG/L	2/9/2012	1500	470	1.3	0.71	<1.0	<0.50	<1.0	<10	3.3	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	2/4/2011	1300	33	1.3	5.2	2.8	<0.50	<1.0	<10	1.6	1.8	<1.0	<1.0	2.0	<1.0	18	3.6	<1.0	<0.50	<1.0
MW-703	UG/L	4/12/2011	1100	76	1.4	7.8	4.8	<0.50	1.4	<10	<1.0	2.7	<1.0	<1.0	2.6	<1.0	10	1.7	<1.0	<0.50	<1.0
MW-703	UG/L	8/30/2011	2100	170	3.4	20	8.5	<0.50	3.3	50	<1.0	2.4	1.1	<1.0	1.1	<1.0	8.7	<1.0	<1.0	<0.50	1.3
MW-703	UG/L	11/17/2011	1400	150	3.4	21	4.7	<0.50	<1.0	<10	<1.0	2.2	1.0	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	11/17/2011	1700	170	3.8	25	5.6	<0.50	<1.0	<10	<1.0	2.5	1.2	<1.0	<1.0	<1.0	8.8	<1.0	<1.0	<0.50	<1.0
MW-703	UG/L	2/14/2012	470	48	0.72	1.4	1.9	<0.50	<1.0	<10	1.1	<1.0	<1.0	<1.0	2.6	1.0	28	3.0	<1.0	<0.50	2.5
MW-704	UG/L	2/9/2011	26000	1900	2400	620	3700	720	430	<10	96	1300	550	<1.0	<1.0	<1.0	2.5	<1.0	1.3	40	<1.0
MW-704	UG/L	2/9/2011	27000	1800	2000	610	3600	680	210	<10	120	1200	520	<1.0	2.3	<1.0	2.5	<1.0	1.2	38	<1.0
MW-704	UG/L	4/13/2011	5400	170	110	200	190	68	73	<10	38	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	6.0	7.0	2.0
MW-704	UG/L	8/31/2011	11000	570	600	300	540	180	180	160	58	410	170	<1.0	<1.0	<1.0	3.8	<1.0	3.5	25	1.5
MW-704	UG/L	9/1/2011	2200	1200	95	92	1500	170	17	46	87	160	35	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<0.50	4.6
MW-704	UG/L	11/17/2011	10000	550	430	420	520	180	190	<10	37	490	210	<1.0	<1.0	<1.0	3.4	<1.0	3.9	18	<1.0
MW-704	UG/L	2/14/2012	7700	310	89	390	530	95	100	73	50	500	210	<1.0	<1.0	<1.0	5.3	<1.0	5.7	5.9	3.1
MW-704	UG/L	2/14/2012	7800	320	89	410	560	96	130	80	53	510	220	<1.0	<1.0	<1.0	4.5	<1.0	4.9	6.2	2.3
MW-705	UG/L	2/4/2011	3100	450	3.5	5.1	6.4	0.54	90	94	6.7	<1.0	1.3	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	4/12/2011	930	55	0.87	1.7	1.6	<0.50	22	31	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	8/31/2011	1300	79	1.4	3.3	2.3	<0.50	13	66	<1.0	1.9	1.3	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	0.56	1.2
MW-705	UG/L	11/17/2011	1100	56	7.6	24	29	6.3	73	<10	38	31	9.8	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-705	UG/L	2/14/2012	410	52	1.2	7.0	7.8	0.66	250	240	3.3	8.1	3.8	<1.0	<1.0	<1.0	8.9	1.3	<1.0	<0.50	1.8
MW-705	UG/L	2/14/2012	440	49	0.86	5.6	5.7	<0.50	250	230	<1.0	5.0	2.6	<1.0	<1.0	<1.0	8.3	1.3	<1.0	<0.50	1.5
MW-706	UG/L	2/4/2011	390	4.9	0.57	<0.50	<1.0	<0.50	4.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-706	UG/L	4/11/2011	540	9.0	<0.50	<0.50	<1.0	<0.50	5.9	89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	<0.50	2.6
MW-706	UG/L	8/31/2011	1100	25	0.86	0.65	1.9	<0.50	5.4	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	1.9
MW-706	UG/L	11/18/2011	490	9.5	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0
MW-706	UG/L	2/14/2012	350	16	<0.50	<0.50	<1.0	<0.50	4.4	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	<0.50	2.5
MW-707	UG/L	2/4/2011	2000	520	120	7.6	120	150	15	<10	<1.0	10	7.8	4.1	8.7	<1.0	7.0	6.9	<1.0	2.7	<1.0
MW-707	UG/L	4/8/2011	7000	1000	560	180	670	310	15	<10	26	74	27	<1.0	3.2	<1.0	8.7	1.6	<1.0	4.0	<1.0
MW-707	UG/L	11/18/2011	8300	930	120	55	1900	120	<1.0	<10	150	250	53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-707	UG/L	2/1/2012	10000	1200	150	100	1100	96	<1.0	<10	110	220	69	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	2/4/2011	530000	1400	420	3000	8100	13	330	<10	370	2200	92	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	9/1/2011	38000	1900	230	1200	2200	54	2300	2500	150	440	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-708	UG/L	11/18/2011	18000	1100	62	630	860	30	1000	<100	180	940	390	<10	<10	<10	<10	<10	<10	<5.0	<10
MW-708	UG/L	2/10/2012	18000	1700	74	770	1000	38	830	<10	170	1100	410	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/4/2011	500	16	1.0	<0.50	4.8	1.1	2.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	4/6/2011	580	26	0.86	0.89	4.1	0.72	4.6	<10	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	9/1/2011	9900	1.1	<0.50	0.91	4.6	1.2	7.6	60	<1.0	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	11/21/2011	1100	<0.50	<0.50	0.77	2.1	0.75	6.4	<10	4.6	1.4	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-709	UG/L	2/10/2012	760	<0.50	<0.50	<0.50	<1.0	<0.50	4.4	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-710	UG/L	2/8/2011	93	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	55	93	2.9	14	41	3.1	0.81	1.3
MW-710	UG/L	2/8/2011	110	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	54	89	2.9	14	41	3.1	<0.50	1.2
MW-710	UG/L	4/7/2011	<50	0.81	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	72	4.1	19	56	4.9	1.5	2.0
MW-710	UG/L	4/7/2011	100	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	82	92	4.0	18	54	4.7	1.5	1.9
MW-710	UG/L	9/2/2011	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	58	<1.0	<1.0	<1.0	76	100	2.2	18	54	4.6	1.2	1.3
MW-710	UG/L	9/2/2011	380	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	97	2.0	17	50	4.3	1.2	1.1
MW-710	UG/L	11/21/2011	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	51	71	1.5	13	35	3.6	<0.50	<1.0
MW-710	UG/L	11/21/2011	79	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	52	71	1.5	13	34	3.4	<0.50	<1.0
MW-710	UG/L	2/1/2012	170	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	66	110	2.1	23	71	6.0	<0.50	<1.0
MW-711	UG/L	2/8/2011	11000	520	440	120	380	250	11	<10	260	180	110	<1.0	8.4	<1.0	4.5	<1.0	<1.0	<0.50	7.5
MW-711	UG/L	4/6/2011	7100	<0.50	<0.50	65	160	50	20	<10	420	52	36	<1.0	1.1	<1.0	2.6	<1.0	<1.0	<0.50	8.7
MW-711	UG/L	9/2/2011	44000	1600	1800	650	3000	1100	25	<10	620	1800	550	<1.0	<1.0	1.3	3.8	<1.0	<1.0	<0.50	17
MW-711	UG/L	11/21/2011	14000	370	290	530	1800	790	<1.0	<10	880	480	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	UG/L	2/10/2012	23000	1900	2100	440	1800	770	14	<10	360	480	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	2/9/2011	14000	1200	520	380	1800	390	23	<10	98	460	170	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	4/7/2011	94	860	140	270	1100	170	32	<10	140	580	220	<1.0	1.8	<1.0	3.4	<1.0	<1.0	0.64	2.2
MW-712	UG/L	9/2/2011	6300	440	77	100	350	72	19	<10	43	180	76	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	0.71	<1.0
MW-712	UG/L	11/21/2011	8000	600	60	90	310	60	<1.0	<10	65	140	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	UG/L	2/13/2012	8300	850	57	62	180	46	21	94	24	86	44	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	1.7
MW-713	UG/L	2/9/2011	280	29	<0.50	<0.50	1.7	<0.50	3.5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	4/8/2011	1000	150	<0.50	0.91	1.6	<0.50	75	120	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	9/2/2011	310	73	3.0	1.7	7.8	3.6	71	100	11	7.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3300	900	1.6	3.4	12	2.6	230	220	2.2	2.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	11/22/2011	3500	800	1.9	3.8	14	2.9	230	230	2.7	2.4	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
MW-713	UG/L	2/13/2012	5500	1900	2.2	4.6	9.8	2.5	390	160	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.50	<1.0

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-714	UG/L	2/14/2011	370	1.3	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	4/7/2011	16000	16	4.0	2.1	11	1.9	16	<10	23	4.7	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	9/2/2011	500	3.8	<0.50	<0.50	1.1	<0.50	9.7	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	430	9.0	<0.50	<0.50	<1.0	<0.50	8.4	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	11/22/2011	490	4.7	<0.50	<0.50	<1.0	<0.50	7.9	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	UG/L	2/13/2012	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/14/2011	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	4/8/2011	1500	310	5.6	1.0	3.6	1.6	8.8	<10	3.8	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	9/2/2011	1100	420	1.4	2.2	6.1	2.5	7.9	20	3.8	2.5	4.6	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.53	1.2
MW-715	UG/L	9/2/2011	5500	800	2.5	4.0	12	5.3	8.2	22	5.0	4.5	4.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.56	1.9
MW-715	UG/L	11/22/2011	1500	450	1.5	6.0	<1.0	<0.50	8.5	11	3.5	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	2/1/2012	860	270	2.6	1.7	5.6	1.1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/1/1989		390	3.9	2.1								<0.5A		<0.5A			3.5A	<0.5A	21
W-1	UG/L	3/1/1990		140	<5	<5								<5		<10			<5	<5	<20
W-1	UG/L	4/1/1990		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	UG/L	12/18/1996	800	78	<5	<5			<10		10	<5	<5	<5		<5	<5		<5	<5	<10
W-1	UG/L	1/14/1998	1100	62	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-1	UG/L	8/20/1998	1200	79	<5	<5			14		<10	<5	<5	<5		<5	8.6		8.4	<5	26
W-1	UG/L	1/29/1999	1400	57	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	18
W-1	UG/L	7/19/1999	1500	48	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-1	UG/L	8/3/2000	880	29	<1	<1			10		<10	<1	<1	<1		<1	1.6		1.6	<0.5	7.3
W-1	UG/L	2/8/2001	<500	21	<1	<1			68		<10	<1	<1	<1		<1	2.3		<1	<0.5	6.3
W-1	UG/L	7/26/2001	620	18	<1	<1			62		<10	<1	<1	<1		<1	2.8		1.8	<0.5	6.8
W-1	UG/L	5/8/2002	280	7.7	<1	<1			5.9	44000	<10	<1	<1	<1		<1	3.1		<1	<0.5	6.4
W-1	UG/L	9/25/2002	210	12	<1	<1			1.9	30000	<10	<1	<1	<1		<1	6.5		<1	<0.5	14
W-1	UG/L	7/1/2004	460	14	2.8	1.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		4J	9.3		1J	<5	2
W-1	UG/L	10/6/2005	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1		1.6	<1		<1	<0.5	7.1
W-1	UG/L	2/15/2006	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5		1.3	<5		<5	<5	3.3
W-1	UG/L	8/3/2006	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	11/9/2006	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	2/8/2007	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	5/10/2007	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2		0.42	<2		<2	<2	1.8
W-1	UG/L	8/9/2007	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2		0.47	<2		0.32	<2	1.9
W-1	UG/L	11/7/2007	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0.38	2.1	<0.32		0.7	<0.32		<0.27	<0.28	1.2
W-1	UG/L	2/7/2008	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	1/20/2009	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2		0.87	<2		0.58	<2	2.8
W-1	UG/L	1/20/2009	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2		1.1	0.4		0.61	<2	3.7
W-1	UG/L	4/24/2009	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2		1.4	<2		0.74	<2	9.5
W-1	UG/L	3/5/2010	270	3.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.3
W-1	UG/L	5/13/2010	260	9.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	1.2
W-1	UG/L	8/6/2010	260	17	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-1	UG/L	11/5/2010	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/4/2011	200	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	4/14/2011	150	1.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	8/26/2011	130	3.9	<0.50	<0.50	<1.0	<0.50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	6.4

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	UG/L	2/6/2012	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-10	UG/L	11/8/2006	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	UG/L	2/9/2007	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/9/2007	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	5/11/2007	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6		8.2	1.2	3.6
W-10	UG/L	5/11/2007	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6		8.8	1.4	3.9
W-10	UG/L	8/9/2007	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4		8	<10	3
W-10	UG/L	11/9/2007	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	UG/L	2/8/2008	<28000	7200	280	300	1300	190	<500	<5000	140	140	38	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/8/2008	<25000	7600	310	330	1400	200	<500	<5000	170	150	42	<200		<200	<200		<200	<200	<500
W-10	UG/L	1/21/2009	20000	8100	<200	440	1400	<200	<500	<5000	<500	230	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	4/27/2009	16000	7400	<200	490	1400	<200	<500	<5000	270	230	36	<200		<200	<200		<200	<200	<500
W-10	UG/L	4/27/2009	15000	5100	<200	350	830	<200	<500	<5000	220	190	31	<200		<200	<200		<200	<200	<500
W-10	UG/L	3/8/2010	8600	3100	<250	<250		<250	<500	<5000	<500	<500	<500	<500		<500	<500		<500	<250	<500
W-10	UG/L	3/8/2010	12000	4200	4.4	200		1.6	<1.0	<10	110	93	18	<1.0		<1.0	<1.0		<1.0	7.3	<1.0
W-10	UG/L	5/17/2010	9500	3900	7.4	230		1.9	<1.0	<10	130	70	13	<1.0		<1.0	<1.0		<1.0	2.7	<1.0
W-10	UG/L	5/17/2010	10000	2900	10	160		1.7	<1.0	15	110	82	14	<1.0		<1.0	<1.0		<1.0	4.2	<1.0
W-10	UG/L	8/9/2010	7900	2400	12	130		1.9	<1.0	93	60	62	10	<1.0		<1.0	<1.0		<1.0	3.0	<1.0
W-10	UG/L	11/8/2010	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	2.6	1.4
W-10	UG/L	2/8/2011	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0
W-10	UG/L	4/21/2011	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	12	<1.0
W-10	UG/L	9/1/2011	8200	2900	2.2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0
W-10	UG/L	11/16/2011	8800	840	3.9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-10	UG/L	2/8/2012	10000	3100	5.5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0
W-11	UG/L	11/9/2006	5200	99	12	74	240	37	<5	<50	<5	73	40	<2		<2	18		<2	<2	<5
W-11	UG/L	11/9/2006	12000	96	7.8	54	140	21	<5	<50	<5	60	34	<2		<2	18		<2	<2	<5
W-11	UG/L	2/9/2007	8000	95	14	78	280	27	<10	<100	<10	56	28	<4		<4	15		<4	<4	<10
W-11	UG/L	5/9/2007	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2		0.41	18		<2	<2	0.96
W-11	UG/L	8/8/2007	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2		<2	9.9		<2	0.29	1.1
W-11	UG/L	11/8/2007	460	61	1.2	14	37	13	<0.32	<4.9	1	35	17	<0.32		<0.27	10		<0.27	<0.28	<0.3
W-11	UG/L	12/8/2010	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0
W-11	UG/L	2/4/2011	10000	100	1.2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	4/15/2011	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	8/29/2011	10000	560	2.2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	11/14/2011	10000	620	3.0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-11	UG/L	2/8/2012	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.90	<1.0
W-12	UG/L	11/8/2006	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2		<2	5.4		<2	<2	<5
W-12	UG/L	2/7/2007	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	6.8		<2	<2	<5
W-12	UG/L	5/9/2007	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2		0.31	4.3		<2	0.37	1.1
W-12	UG/L	8/8/2007	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2		<2	3.1		<2	<2	0.85
W-12	UG/L	11/6/2007	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32		<0.27	2.6		<0.27	0.42	0.47
W-12	UG/L	2/8/2008	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2		<2	1.8		<2	0.45	<5
W-12	UG/L	1/20/2009	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2		0.48	5.4		<2	<2	2.4
W-12	UG/L	4/22/2009	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0.26	<2	<2		<2	3.7		<2	<2	1.5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-12	UG/L	3/4/2010	400	<0.50	<0.50	2.1		<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	5/12/2010	610	<0.50	<0.50	3.0		<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	8/5/2010	650	<0.50	<0.50	3.5		<0.50	<1.0	<10	2.8	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-12	UG/L	11/4/2010	530	<0.50	<0.50	1.4	<1.0	<0.50	<1.0	<10	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	2/3/2011	310	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	4/19/2011	220	<0.50	<0.50	0.57	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	2.7
W-12	UG/L	8/25/2011	360	<0.50	<0.50	1.3	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	11/14/2011	63	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	<1.0
W-12	UG/L	2/8/2012	400	<0.50	<0.50	2.2	<1.0	<0.50	<1.0	<10	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	2.2
W-14A	UG/L	2/12/2008	42	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	2.3		1.1	9		0.46	0.37	<5
W-14A	UG/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-14A	UG/L	4/21/2009	54	<2	<2	<2	<2	<2	0.47	8.1	<5	<2	<2	1.3		0.86	8.7		0.44	0.4	<5
W-14A	UG/L	3/1/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-14A	UG/L	5/10/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-14A	UG/L	8/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.4		<1.0	<0.50	<1.0
W-14A	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	1/31/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	4/4/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	8/22/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.8	1.0	5.2	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<0.50	<1.0
W-14A	UG/L	1/30/2012	200	1.5	<0.50	38	<1.0	<0.50	<1.0	<10	<1.0	1.1	<1.0	<1.0	3.2	<1.0	10	1.4	<1.0	<0.50	<1.0
W-14B	UG/L	2/12/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.72		<2	0.83		<2	<2	<5
W-14B	UG/L	1/13/2009	170	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.4		<2	4.8		<2	<2	<5
W-14B	UG/L	4/21/2009	65	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	19		2.6	9.6		2.2	0.45	<5
W-14B	UG/L	3/1/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	5.6		<1.0	<0.50	<1.0
W-14B	UG/L	5/10/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	1.2		1.1	6.2		<1.0	<0.50	<1.0
W-14B	UG/L	8/2/2010	55	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	<1.0
W-14B	UG/L	11/1/2010	88	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	2.0	45	2.0	10	14	1.2	<0.50	<1.0
W-14B	UG/L	1/31/2011	65	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	9.7	<1.0	2.0	3.1	<1.0	<0.50	<1.0
W-14B	UG/L	4/4/2011	<50	<0.50	1.8	<0.50	<1.0	<0.50	<1.0	48	<1.0	<1.0	<1.0	15	99	2.8	13	34	2.9	0.53	<1.0
W-14B	UG/L	8/22/2011	200	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	28	130	2.4	9.8	53	3.2	0.98	<1.0
W-14B	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	1.8	<1.0	<0.50	<1.0
W-14B	UG/L	1/30/2012	220	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	22	100	<1.0	12	55	3.1	<0.50	<1.0
W-14C	UG/L	2/12/2008	260	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.89		5.7	22		3.7	0.48	0.58
W-14C	UG/L	1/14/2009	120	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		8.8	34		3.4	<2	<5
W-14C	UG/L	4/21/2009	67	1.5	<2	<2	<2	<2	<5	10	<5	<2	<2	<2		4.5	23		2.1	<2	<5
W-14C	UG/L	3/1/2010	300	1.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.8	34		2.4	<0.50	<1.0
W-14C	UG/L	5/10/2010	120	0.58	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	13		<1.0	<0.50	<1.0
W-14C	UG/L	8/2/2010	77	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		4.6	35		2.4	<0.50	<1.0
W-14C	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	1/31/2011	60	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.8	1.1	9.9	3.0	<1.0	<0.50	<1.0
W-14C	UG/L	4/4/2011	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	27	<1.0	<1.0	<1.0	<1.0	24	3.9	30	16	3.1	<0.50	<1.0
W-14C	UG/L	8/22/2011	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0	21	2.3	26	12	2.2	<0.50	<1.0
W-14C	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-14C	UG/L	1/30/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	5.3	2.2	<1.0	<0.50	<1.0



**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-15A	UG/L	2/11/2008	2700	620	4.9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15A	UG/L	1/14/2009	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15A	UG/L	4/24/2009	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10
W-15A	UG/L	3/2/2010	240	0.93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	5/10/2010	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	8/2/2010	310	0.54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	74	0.66	<0.50	<0.50	1.0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/1/2011	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
W-15A	UG/L	4/5/2011	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/2/2012	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/11/2008	<1600	900	<20	<20	7	<20	20	110	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15B	UG/L	1/14/2009	340	160	<2	<2	5	<2	20	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	4/24/2009	63	6.2	<2	<2	<2	<2	5.8	98	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	3/2/2010	220	3.8	<0.50	<0.50		<0.50	5.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	5/11/2010	230	20	<0.50	<0.50		<0.50	17	36	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	8/3/2010	250	14	<0.50	<0.50		<0.50	19	67	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15B	UG/L	11/2/2010	740	38	<0.50	<0.50	3.2	0.74	50	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/1/2011	120	7.0	1.7	0.55	4.0	1.4	22	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	4/5/2011	1500	<0.50	66	18	120	64	130	<10	6.3	16	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	11/10/2011	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	2/2/2012	280	35	14	4.4	31	18	100	80	<1.0	2.3	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	2/11/2008	<50	0.94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	1.1		0.45	0.35	0.34
W-15C	UG/L	1/15/2009	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2		<2	5.7		1.2	0.86	0.9
W-15C	UG/L	4/24/2009	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	1		<2	<2	<5
W-15C	UG/L	3/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.4		<1.0	<0.50	<1.0
W-15C	UG/L	5/11/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-15C	UG/L	8/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	20	<1.0	<1.0	<1.0	<1.0		<1.0	4.7		1.0	0.54	1.5
W-15C	UG/L	11/2/2010	70	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	2/1/2011	94	1.6	0.85	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	4/5/2011	120	10	4.8	1.9	10	2.6	4.2	<10	1.1	<1.0	<1.0	<1.0	4.6	<1.0	6.6	1.5	1.4	<0.50	1.8
W-15C	UG/L	8/23/2011	89	9.5	3.5	1.4	13	2.7	5.2	<10	<1.0	1.8	<1.0	<1.0	5.5	<1.0	6.5	1.6	<1.0	<0.50	<1.0
W-15C	UG/L	11/8/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15C	UG/L	1/31/2012	53	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	5.8	1.5	<1.0	<0.50	<1.0
W-16A	UG/L	11/9/2007	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		2.6	<0.28	16
W-16A	UG/L	2/6/2008	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14
W-16A	UG/L	1/21/2009	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7.2
W-16A	UG/L	4/27/2009	410	34	<2	<2	<2	<2	<5	20	<5	<2	0.27	<2		0.54	<2		1.8	<2	17
W-16A	UG/L	3/5/2010	220	4.2	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	2.9
W-16A	UG/L	5/14/2010	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	8/9/2010	120	0.93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16A	UG/L	11/5/2010	90	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	2/7/2011	320	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<0.50	1.1
W-16A	UG/L	4/18/2011	520	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<0.50	2.2

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-16A	UG/L	8/26/2011	280	13	<0.50	<0.50	<1.0	<0.50	<1.0	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<0.50	<1.0
W-16A	UG/L	11/8/2011	65	3.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-16A	UG/L	2/3/2012	230	16	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<0.50	<1.0
W-16B	UG/L	11/9/2007	37	7.4	<0.36	<0.25	<0.6	<0.3	<0.32	9.1	0.8	0.26	<0.26	<0.32		8.7	6.6		<0.27	<0.28	<0.3
W-16B	UG/L	2/6/2008	400	48	<2	0.33	<2	<2	<5	9.9	1.9	0.4	<2	<2		43	27		<2	<2	<5
W-16B	UG/L	1/21/2009	73	16	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		15	9.7		<2	<2	<5
W-16B	UG/L	4/27/2009	47	0.9	<20	<20	<20	<20	<50	<500	<50	<20	<20	<20		9.4	6.1		<20	<20	<50
W-16B	UG/L	3/8/2010	73	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.7	5.8		<1.0	<0.50	<1.0
W-16B	UG/L	5/14/2010	60	3.0	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	3.0		<1.0	<0.50	<1.0
W-16B	UG/L	8/9/2010	<50	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16B	UG/L	11/5/2010	110	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	9.4	13	<1.0	1.2	<0.50	<1.0
W-16B	UG/L	2/7/2011	290	80	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0	3.5	50	70	2.0	8.5	<0.50	2.9
W-16B	UG/L	4/18/2011	550	100	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	6.4	100	89	2.6	9.2	<0.50	10
W-16B	UG/L	8/26/2011	89	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	12	16	<1.0	1.4	<0.50	1.1
W-16B	UG/L	11/8/2011	<50	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	19	13	<1.0	1.5	<0.50	<1.0
W-16B	UG/L	2/3/2012	210	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.4	24	16	<1.0	1.3	<0.50	<1.0
W-16C	UG/L	11/9/2007	170	18	<0.36	<0.25	<0.6	<0.3	<0.32	13	<0.41	<0.23	<0.26	<0.32		12	40		11	<0.28	5.6
W-16C	UG/L	2/6/2008	360	30	0.46	<2	<2	<2	<5	21	<5	<2	<2	<2		14	66		24	<2	18
W-16C	UG/L	1/21/2009	510	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	73		35	<2	24
W-16C	UG/L	4/28/2009	170	20	<2	<2	<2	<2	<5	8.2	<5	<2	<2	<2		12	41		14	<2	8.2
W-16C	UG/L	3/8/2010	95	2.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	9.1		1.6	<0.50	<1.0
W-16C	UG/L	5/14/2010	63	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.8		1.2	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-16C	UG/L	11/5/2010	390	14	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	7.6	30	1.4	11	<0.50	9.6
W-16C	UG/L	2/7/2011	440	33	0.54	<0.50	<1.0	<0.50	<1.0	<10	6.9	<1.0	<1.0	<1.0	<1.0	15	68	3.3	22	<0.50	14
W-16C	UG/L	4/18/2011	510	39	0.51	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	20	80	4.7	32	<0.50	30
W-16C	UG/L	8/26/2011	320	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	15	63	2.8	24	<0.50	16
W-16C	UG/L	11/9/2011	270	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	16	58	2.1	16	<0.50	<1.0
W-16C	UG/L	2/3/2012	250	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	16	54	2.8	17	<0.50	<1.0
W-17A	UG/L	2/14/2008	100	<2	<2	<2	<2	<2	<5	140	<5	<2	<2	<2		<2	6.2		0.47	1.4	0.7
W-17A	UG/L	1/16/2009	78	<2	<2	<2	<2	<2	<5	54	0.41	0.33	<2	<2		0.39	1.4		<2	<2	<5
W-17A	UG/L	4/22/2009	180	4.5	<2	<2	<2	<2	<5	57	<5	<2	<2	<2		1.9	7.7		0.51	0.65	<5
W-17A	UG/L	3/3/2010	51	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0
W-17A	UG/L	5/12/2010	110	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.2		<1.0	<0.50	<1.0
W-17A	UG/L	8/4/2010	56	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-17A	UG/L	11/3/2010	69	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	8/24/2011	98	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.6	<1.0	<1.0	<0.50	<1.0
W-17A	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/14/2008	39	<2	<2	<2	<2	<2	<5	30	<5	<2	<2	<2		<2	1.4		<2	<2	<5
W-17B	UG/L	1/16/2009	38	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17B	UG/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	0.71		<2	<2	<5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17B	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	5/12/2010	54	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17B	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/14/2008	36	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	UG/L	1/16/2009	29	<2	<2	<2	<2	<2	<5	21	<5	<2	<2	<2		<2	1.2		<2	<2	<5
W-17C	UG/L	4/23/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	UG/L	3/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	5/12/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17C	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-17C	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-2	UG/L	11/1/1989		78	6.5	6.5								<0.5A		<0.5A			4.3A	<0.5A	75A
W-2	UG/L	3/1/1990		62	<0.5	<0.5								<0.5		<1			<0.5	<0.5	<2
W-2	UG/L	4/1/1990		83	26	4								<2.5		<5	13		3	<2.5	5.9
W-2	UG/L	12/18/1996	560	56	<2	<2			<2		<2	<2	<2	<2		<2	13		<2	<2	11
W-2	UG/L	1/14/1998	700	85	<5	<5			<5		<10	<5	<5	<5		<5	17		<5	<5	27
W-2	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3	UG/L	11/1/1989		19	2.6	7.6								<0.5		<0.5			2.5A	<0.5	7.1A
W-3	UG/L	1/1/1990		<0.5	<0.5	<0.5								<0.5		<1			1	<0.5	<2
W-3	UG/L	3/1/1990		5.3	4.5	<0.5								<0.5		<1			0.5	<0.5	<2
W-3	UG/L	4/1/1990		3.4	4.5	<1								<0.5		<1	<5		<0.5	<0.5	<2
W-3	UG/L	12/18/1996	1300	590	<25	<25			<10		<25	<25	<25	<25		<25	<25		<25	<25	<50
W-3	UG/L	1/13/1998	2200	280	<5	<5			<5		<10	<5	<5	<5		<5	<5		6	<5	51
W-3	UG/L	8/20/1998	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	1/13/1998	4300000	150000	<6000	35000			<200000												
W-3A	UG/L	8/20/1998	1100	220	<25	33			440		350	<25	<25	<25		<25	<25		<25	<25	<50
W-3A	UG/L	1/28/1999	690	160	<50	<50			340		240	<50	<50	<50		<50	<50		<50	<50	<100
W-3A	UG/L	7/19/1999	5400	120	<20	<20			380		<200	37	<20	<20		<20	<20		<20	<10	<10
W-3A	UG/L	1/13/2000	14000	140	<10	<10			210		<100	<10	<10	<10		<10	<10		<10	<5	7
W-3A	UG/L	8/4/2000	3400	170	<20	8.4			220		<50	2	2	<2		<2	<20		<20	<1	5
W-3A	UG/L	2/8/2001	2700	34	<1	2.9			12		63	13	4.4	<1		<1	<1		<1	<0.5	1.7
W-3A	UG/L	7/26/2001	3400	42	<1	1.7			6.2		11	15	<1	<1		<1	<1		<1	<0.5	27
W-3A	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	2/16/2006	306	<1	<5	<5	<5	<5	6.2	16	<5	18	16	<5		<5	<5		<5	<5	<5

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-3A	UG/L	8/3/2006	39000	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/9/2006	8100	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2		<2	<2		<2	<2	<5
W-3A	UG/L	2/8/2007	1400	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2		<2	<2		<2	<2	<5
W-3A	UG/L	5/10/2007	14000	0.66	<2	<2	<2	<2	7.8	23	16	2.3	3.6	<2		<2	<2		<2	<2	<5
W-3A	UG/L	8/9/2007	1900	0.79	<2	<2	<2	0.34	9.8	26	14	2	2.3	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/7/2007	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-3A	UG/L	2/7/2008	180	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-4	UG/L	3/1/1990		120	<0.5	19								<0.5		<0.5	3.2		8.3	<0.5	<0.5
W-4	UG/L	4/1/1990		28	1.4	4.8								<1		<1	0.81		2.2	<1	4.3
W-4	UG/L	12/18/1996	420	80	<5	<5			<10		<5	<5	<5	<5		<5	<5		<5	<5	<10
W-4	UG/L	1/14/1998	920	120	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-4	UG/L	8/20/1998	500	57	<5	<5			18		<10	<5	<5	<5		<5	<5		<5	<5	9.8
W-4	UG/L	1/29/1999	460	55	<5	<5			20		<10	<5	<5	<5		<5	<5		<5	<5	11
W-4	UG/L	7/19/1999	710	72	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-4	UG/L	1/13/2000	660	49	<1	<1			<1		<10	<1	<1	<1		<1	1.3		<1	<0.5	13
W-4	UG/L	8/3/2000	<500	47	<1	<1					<10	<1	<1	<1		1.2	<1		<1	<0.5	12
W-4	UG/L	2/8/2001	<500	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.1	0.67	7
W-4	UG/L	7/26/2001	320	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1	<0.5	<0.5
W-4	UG/L	5/8/2002	250	33	<1	<1			<1	60000	<10	<1	<1	<1		2	<1		1.3	<0.5	5.2
W-4	UG/L	9/25/2002	290	62	<1	<1			<1	45000	<1	<1	<1	<1		3.8	<1		2	<0.5	<0.5
W-4	UG/L	7/1/2004	350	30	2.6	1.9	0.66	<0.5	<5	<100	<5	<5	<5	<5		1J	3J		2J	<5	11
W-4	UG/L	10/6/2005	350	31	<1	<1	<1	<1	<1	47	<10	<1	<1	<1		<1	6.4		1.7	<0.5	1.3
W-4	UG/L	2/15/2006	501	43	<5	<5	<5	<5	<1	38	<5	<5	<5	<5		<5	2.8		2.5	<5	2.4
W-4	UG/L	8/3/2006	2800	3.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.5		<2	<2	<5
W-4	UG/L	11/9/2006	230	6.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	5.1		<2	<2	<5
W-4	UG/L	2/8/2007	200	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.7		<2	<2	<5
W-4	UG/L	5/10/2007	170	1.5	<2	<2	<2	<2	1.6	30	<5	<2	<2	<2		<2	3.8		<2	<2	1
W-4	UG/L	8/9/2007	280	1	<2	<2	<2	<2	2	18	<5	<2	<2	<2		<2	3.2		<2	<2	0.59
W-4	UG/L	11/7/2007	180	1.9	<0.36	<0.25	<0.6	<0.3	1.4	22	<0.41	<0.23	<0.26	<0.32		<0.27	3.6		0.36	<0.28	<0.3
W-4	UG/L	2/7/2008	210	4.4	<2	<2	<2	<2	<5	55	<1	<2	<2	<2		<1	4.4		<2	<2	<5
W-4	UG/L	2/7/2008	250	3.9	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	4		<2	<2	<5
W-4	UG/L	1/19/2009	140	0.51	<2	<2	<2	<2	<5	47	0.43	<2	<2	<2		<2	7.6		1	<2	1.8
W-4	UG/L	4/27/2009	92	<2	<2	<2	<2	<2	<5	34	<5	<2	<2	<2		<2	7.3		0.61	<2	1.9
W-4	UG/L	3/5/2010	600	1.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	7.4
W-4	UG/L	5/13/2010	700	4.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	5.4
W-4	UG/L	8/6/2010	570	68	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	7.2
W-4	UG/L	11/4/2010	980	180	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
W-4	UG/L	2/8/2011	1800	480	<0.50	1.2	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	8.6
W-4	UG/L	4/14/2011	1400	460	0.59	1.2	<1.0	<0.50	1.1	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	11
W-4	UG/L	8/25/2011	840	190	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.8
W-4	UG/L	11/14/2011	1200	390	<2.5	0.76	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-4	UG/L	2/6/2012	1100	410	<0.50	0.79	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	6.2
W-7	UG/L	8/4/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	<1		<1	<0.5		1.2	<1	<0.5
W-7	UG/L	2/8/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	7/26/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	5/7/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5

**Table III**  
**Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

[illegible]

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-8	UG/L	11/10/2011	110	<0.50	0.64	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-8	UG/L	2/7/2012	90	<0.50	0.73	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	2/6/2007	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	5/9/2007	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		<2	2		<2	<2	<5
W-9	UG/L	8/7/2007	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2		0.31	3		<2	<2	<5
W-9	UG/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0.26	<0.32		0.31	3.8		<0.27	<0.28	<0.3
W-9	UG/L	2/5/2008	<50	<2	<2	<2	<2	<2	<5	23	0.5	<2	<2	<2		0.3	3.4		<2	<2	<5
W-9	UG/L	1/15/2009	46	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	3.2		<2	<2	<5
W-9	UG/L	4/23/2009	36	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	2.6		<2	<2	<5
W-9	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0
W-9	UG/L	5/12/2010	80	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.8		<1.0	<0.50	<1.0
W-9	UG/L	8/4/2010	67	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.0		<1.0	<0.50	<1.0
W-9	UG/L	11/3/2010	87	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
W-9	UG/L	2/8/2012	59	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<0.50	<1.0

NOTES:

PCE - Tetrachloroethylene

TCE - Trichloroethylene

c1,2-DCE - cis-1,2-Dichloroethene

t1,2-DCE - trans-1,2-Dichloroethene

1,1-DCE - 1,1-Dichloroethene

1,2-DCA - 1,2-Dichloroethane

1,3,5-TMB - 1,3,5-Trimethylbenzene

1,2,4-TMB - 1,2,4-Trimethylbenzene

VC - Vinyl Chloride

B- Benzene

T - Toluene

E - Ethylbenzene

X - Xylenes, total

nBUT - n-Butylbenzene

sBUT - sec-Butylbenzene

tBUT - tert-Butylbenzene

nPRO - n-Propylbenzene

1,1 DCA - 1,1-Dichloroethane

ISO-P - Isopropylbenzene

MC - Methylene Chloride

NAP - Naphthalene

TRIM - Trichlorofluoromethane

PMXY - p/m-Xylenes

OXYL -o-Xylene

DIPE - Diisopropyl Ether (DIPE)

MTBE - Methyl-tert-Butyl Ether (MTBE)

TBA - tert-Butyl Alcohol (TBA)

Table III  
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results  
Former CENCO Refinery  
Santa Fe Springs, CA

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
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ND - Not Detected above laboratory detection limits  
ug/L - Micrograms per litre  
NA - Information not available

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

<b>Well ID</b>	<b>Sample Date</b>	<b>pH (SU)</b>	<b>DO (mg/L)</b>	<b>ORP (mV)</b>
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NA	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NA	NA	NA
MW-106A	4/19/2011	NA	NA	NA
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NA	NA	NA
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NA	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240
MW-503B	12/15/2009	6.92	7.78	-137
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147
MW-503B	11/8/2010	7.62	2.93	7
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4



**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

<b>Well ID</b>	<b>Sample Date</b>	<b>pH (SU)</b>	<b>DO (mg/L)</b>	<b>ORP (mV)</b>
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-8	12/18/2009	10.11	7.07	-230
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NA	NA	NA
W-9	2/8/2012	8.32	3.95	61.8
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NA	NA	NA
W-10	5/17/2010	NA	NA	NA
W-10	8/9/2010	NA	NA	NA
W-10	11/3/2010	7.53	3.39	-10

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-10	11/8/2010	NA	NA	NA
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103
W-10	4/15/2011	NA	NA	NA
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NA	NA	NA
W-10	2/8/2012	NA	NA	NA
W-11	12/8/2010	NA	NA	NA
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NA	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-14A	12/15/2009	7.65	7.76	-23
W-14A	3/1/2010	6.61	4.09	58
W-14A	5/10/2010	8.63	2.74	2
W-14A	8/2/2010	8.02	3.12	145
W-14A	11/1/2010	8.30	2.87	46
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.9	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.9	-133.7
W-14C	12/15/2009	8.24	8.57	77
W-14C	3/1/2010	7.22	2.43	188
W-14C	5/10/2010	8.17	0.80	-77
W-14C	8/2/2010	7.60	3.55	128
W-14C	11/1/2010	7.89	3.15	49
W-14C	1/31/2011	7.88	10.85	188
W-14C	4/4/2011	7.98	3.27	51.3
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-15A	12/14/2009	7.31	9.15	85
W-15A	3/2/2010	7.12	2.67	202
W-15A	5/10/2010	7.90	NA	-228
W-15A	8/2/2010	7.39	1.96	-145
W-15A	11/1/2010	7.67	2.85	32
W-15A	2/1/2011	7.89	2.05	-33
W-15A	4/5/2011	8.00	2.60	-81.7
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15B	12/14/2009	7.39	7.44	-58
W-15B	3/2/2010	7.61	2.39	94
W-15B	5/11/2010	8.09	4.36	-15
W-15B	8/3/2010	7.74	3.42	107
W-15B	11/2/2010	8.06	3.18	40
W-15B	2/1/2011	8.15	4.58	286
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

<b>Well ID</b>	<b>Sample Date</b>	<b>pH (SU)</b>	<b>DO (mg/L)</b>	<b>ORP (mV)</b>
W-15B	2/2/2012	8.17	2.31	-69.2
W-15C	12/14/2009	7.16	7.18	-53
W-15C	3/2/2010	7.33	2.27	148
W-15C	5/11/2010	8.16	4.73	-21
W-15C	8/3/2010	7.60	2.72	108
W-15C	11/2/2010	7.55	2.40	62
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-16A	12/16/2009	7.62	6.90	-62
W-16A	3/5/2010	7.03	3.47	-5
W-16A	5/14/2010	8.28	2.23	-54
W-16A	8/9/2010	7.98	2.65	106
W-16A	11/5/2010	8.03	6.15	48
W-16A	2/7/2011	7.82	4.09	249
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NA	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185
W-16C	2/3/2012	8.84	2.51	-253.2
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17B	12/18/2009	8.49	7.18	-173
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NA	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.5	-174.3
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
EW-1	2/3/2011	7.90	6.61	-258

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

<b>Well ID</b>	<b>Sample Date</b>	<b>pH (SU)</b>	<b>DO (mg/L)</b>	<b>ORP (mV)</b>
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NA	NA
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-702	2/4/2011	6.04	NA	NA
MW-702	4/12/2011	7.70	3.29	103.1
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-703	2/4/2011	6.25	NA	NA
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-704	2/9/2011	6.08	NA	NA
MW-704	4/13/2011	7.46	4.60	134.6
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8
MW-704	2/14/2012	7.80	4.2	-31.6
MW-705	2/4/2011	6.01	NA	NA
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-706	2/4/2011	6.21	NA	NA
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3	-52.7
MW-707	2/4/2011	6.22	NA	NA
MW-707	4/8/2011	7.89	3.24	51.9

**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-708	2/4/2011	5.99	NA	NA
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-709	2/4/2011	6.27	NA	NA
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-710	2/8/2011	6.18	NA	NA
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8
MW-711	2/8/2011	5.99	NA	NA
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-712	2/7/2011	6.03	NA	NA
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-713	2/7/2011	6.13	NA	NA
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-714	2/8/2011	6.20	NA	NA
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4

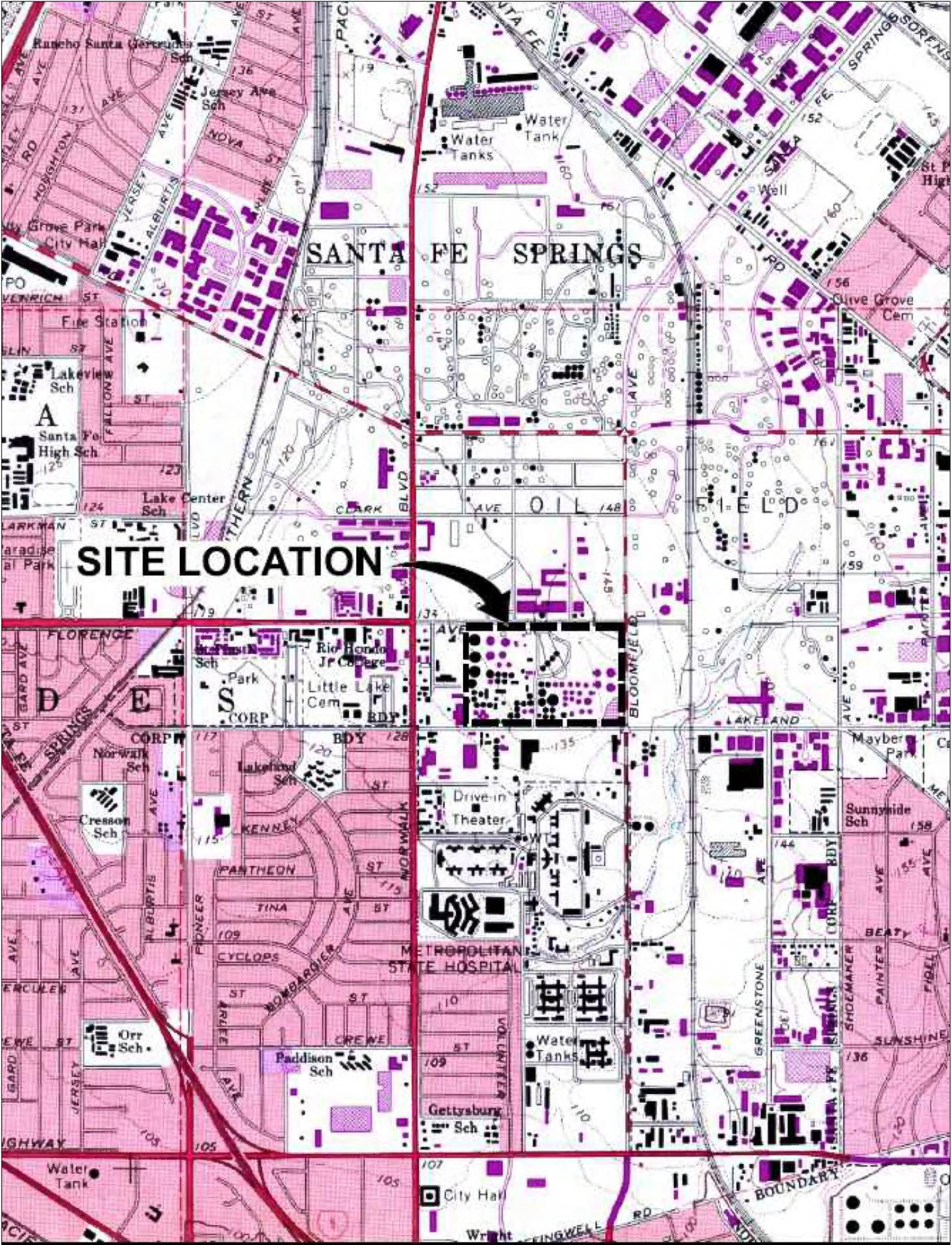
**Table IV**  
**Summary of Field Test Parameters**  
**Former Cenco Refinery**  
**Santa Fe Springs, California**  
**First Quarter 2012**

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-714	11/22/2011	6.96	2.77	-24.2
MW-714	2/13/2012	8.05	4.32	-70.5
MW-715	2/14/2011	7.50	NA	NA
MW-715	4/8/2011	7.78	2.59	16.3
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2

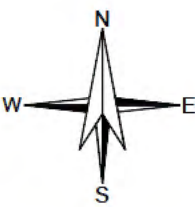
Notes:

DO      dissolved oxygen  
mg/L    milligram(s) per liter  
mV      millivolts  
ORP     oxidation-reduction potential  
SU      standard units  
NA      Not Available





SOURCE OF BASE MAP  
U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



SCALE: NOT TO SCALE

FORMER CENCO REFINERY  
12345 LAKELAND ROAD  
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP



FIGURE  
1

DRAWN BY: RLM REVISION DATE: 3/8/11



# FX-9 Wells

FX-9 Wells

# FX-9 Wells

FX-9 Wells

# FX-9 Wells

FX-9 Wells

# FX-9 Wells

FX-9 Wells

# FX-9 Wells

FX-9 Wells

# FX-9 Wells

FX-9 Wells

# **Appendix A**



# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-6-2012 1Q2012

WELL NO. EW-1 Walker  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 113.50	( ft.)
DEPTH TO WATER 107.65 (before purge)	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS 107.65 - 105.78 = 1.87	( ft.)

WELL NOTES: Typically has FPPH

WELL CONDITION: OK

WEATHER CONDITIONS: Partly cloudy + humid (~68°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
NS	NS	ice	8260B - VOCs + Oxys	VOAs	3	HCL	FPPH product top-down skim
NS	NS	ice	8015M - TPH-g	VOAs	3	HCL	Dark brown (nearly black) oily product at first
							Turned to a "chocolate milk" like FP/H <sub>2</sub> O mixture
							Total volume purged ~ 50 gallons
							Nearly black FPPH — 4 gal
							Dark brown FPPH — 17 gal
							Groundwater (light brown) — 29 gal

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-6-2012 1Q2012

WELL NO. W-1 Walker  
SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	( ft.)
DEPTH TO WATER 109.91	( ft.)
HEIGHT OF WATER COLUMN 20.09	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 13.2594	(gal)
PURGE VOLUME x 3 = 39.7782	(gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES:  
WELL CONDITION: GOOD

WEATHER CONDITIONS: Partly cloudy + humid (~70°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1430	5		8.26	2.596	/	2.46	23.02	1.755	16.1	Gray	Strong
1433	10		8.00	2.590	/	2.74	23.16	1.745	-63.7	Clear	Strong
1436	15		8.02	2.590	/	2.38	23.18	1.744	-73.0	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-6-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Air-assist line used for purge LL-WI-020612-01 @ 15:00
1	1500	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-6-2012 4Q 2011

WELL NO. W-1  
SAMPLED BY: F. Sasic

[illegible]

## GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-6-2012 1Q2012

WELL NO. W-4 Walker  
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	( ft.)
DEPTH TO WATER 111.13	( ft.)
HEIGHT OF WATER COLUMN 18.87	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 12.4542	(gal)
PURGE VOLUME x 3 = 37.3626	(gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES:  
 WELL CONDITION:

OK - NOT GREAT

WEATHER CONDITIONS:  
 Overcast + humid (~70°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP $\mu\text{V}$	Color	Odor
1205	5	VAC TRUCK	8.66	2.438	/	2.89	22.29	1.672	-37.1	Clear	Strong sharp odor
1208	10		8.49	2.389	/	2.65	21.55	1.663	-61.2	Clear	Strong
1216	15		8.48	2.225	/	4.00	18.23	1.660	-62.0	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-6-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Air-assist used for purge
1	1345	ice	8015M - TPH-g	VOAs	3	HCL	Well began de-watering after ~14 gal. were removed Very fine mist now only W-4 DRY @ approx. 22 gallons * Will allow for re-charge prior to collecting sample

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$ 

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-6-2012 4Q 2011

WELL NO. W-4  
SAMPLED BY: F. Sasic

[illegible]

# **GROUNDWATER SAMPLING LOG**

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-8-2012 1Q2012

WELL NO. W-7 Site \_\_\_\_\_  
 SAMPLED BY: Frane Sasic

WELL NOTES: No purge well (sample in any order)

WELL CONDITION: GOOD (a bit rusty)

WEATHER CONDITIONS: Clear/sunny (~72°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER <u>14" (OLD DEEP PRODUCTION WELL)</u>	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES: <u>NO PURGE WELL</u> <u>LL-W7-020812-01 @ 9:00</u>
<u>1</u>	<u>2-8-12</u>	<u>ice</u>	<u>8260B - VOCs + Oxys</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	
<u>1</u>	<u>0900</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-7-2012 1Q2012

WELL NO. W-8 Site  
SAMPLED BY: Frane Sasic

WELL NOTES: No purge well (sample in any order)

WELL CONDITION:

OLD RUSTY PRODUCTION WELL

WEATHER CONDITIONS:

Cloudy/scattered rain/windy (5-15 mph)  
~ 50°F

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-7-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W8-020712-01 @ 13:50
1	1350	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2.8.2012 1Q2012

WELL NO. W-9 Site  
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	110.00 (ft.)
DEPTH TO WATER	92.58 (ft.)
HEIGHT OF WATER COLUMN	17.42 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.83746 (gal)
PURGE VOLUME	x 3 = 8.51838 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:  
 POOR - no bolts to well lid

WEATHER CONDITIONS:  
 Clear/sunny ~75°F

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1025	~5	VAC TRUCK	8.06	2.327	/	5.50	15.10	1.867	156.3	Cloudy	Slight
1105	~9	-11-	8.32	2.358	/	3.95	15.06	1.892	61.8	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2.8.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Very slow purge - well is going dry Dry @ approx. 9 gallons Will allow recharge prior to sampling LL-W9-020812-01 @ 15:46
1	1546	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2 h (ft) \times 7.48 \text{ gal/ft.}^3$

4" well = D.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# **GROUNDWATER SAMPLING LOG**

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-7-2012 1Q2012 2-8-2012  
 (PURGED) (SAMPLED)

WELL NO. **W-10** Site 2  
 SAMPLED BY: Frane Sasic

WELL NOTES: Slow recharge: purge 1-2 days prior to collecting the sample

WELL CONDITION:

OK

WEATHER CONDITIONS:

Light rain and windy (5-15 mph)  
 ~ 50°F

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 110.00	( ft.)
DEPTH TO WATER 97.63	( ft.)
HEIGHT OF WATER COLUMN 12.37	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.01631	(gal)
PURGE VOLUME x 3 = 6.04893	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
DRY	2	VAC TRUCK	/	/	/	/	/	/	/	Light gray	/
DRY	4	I	/	/	/	/	/	/	/	/	/
DRY	6	I	/	/	/	/	/	/	/	/	/

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-8-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Slow re-charge well; typically goes dry ~ 1 gallon. W-10 going dry almost right after purge begins DRY @ $\leq 1.5$ gallons LL-W10-020812-01 @ 8:00
1	0800	ice	8015M - TPH-g	VOAs	3	HCL	

## **ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-8-2012 1Q2012

WELL NO. W-11 Site 2  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	110.00 ( ft.)
DEPTH TO WATER FPPH	97.82 ( ft.)
HEIGHT OF WATER COLUMN	12.18 ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1.98534 (gal)
PURGE VOLUME	x 3 = 5.95602 (gal)
PRODUCT THICKNESS	1.08 (on 1-26-2012) (before purge 2-8-12) ( ft.)

WELL NOTES: Historically contained product

WELL CONDITION:

VERY GOOD (renovated not long ago)

WEATHER CONDITIONS:

Clear/sunny/light breeze (~76°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1153	2		8.26	1.999	/	3.16	20.03	1.436	81.0	Cloudy	Strong
1155	4		8.40	2.055	/	2.92	21.79	1.424	57.5	Clear	Strong
1157	6		8.38	2.066	/	3.30	22.06	1.424	45.6	Clear	Strong

Gasoline  
odor  
↓

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-8-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	FPPH was more of a sheen
1	1207	ice	8015M - TPH-g	VOAs	3	HCL	Milky white liquid quickly dissipated ~ 1 gallon
							LL-W11-020812-01 @ 12:07

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

97.84 FP  
98.14 DTW

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-8-2012 1Q2012

WELL NO. W-12 Site  
SAMPLED BY: Frane Sasic

WELL NOTES: May Be Dry

WELL CONDITION:

Good (Riser well)

WEATHER CONDITIONS:

Clear/sunny ~ 75°F

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	116.00 (ft.)
DEPTH TO WATER	103.39 (ft.)
HEIGHT OF WATER COLUMN	12.61 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 2.05543 (gal)
PURGE VOLUME	x 3 = 6.16629 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUS	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1456	2	VAC TRACK	8.26	2.232	/	3.20	24.65	1.457	-64.8	Gray	Slight
1502	4	I	8.17	2.200	/	2.73	24.24	1.452	-103.4	Light gray	Slight
1505	6	I	8.13	2.205	/	2.57	24.20	1.452	-113.0	Cloudy	Very slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-8-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W12-020812-01 @ 15:16
1	1516	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 1.30.2012 1Q2012

WELL NO. MW-14A Hospital  
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 112.00	( ft.)
DEPTH TO WATER 92.37	( ft.)
HEIGHT OF WATER COLUMN 19.63	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 3.19969	(gal)
PURGE VOLUME x 3 = 9.59907	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny cool morning  
 ~ 75 PM

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
913	3	Vac Truck	8.09	1.578	/	1.79	20.70	1.113	-32.0	Clear	None
916	6	I	8.06	1.607	/	2.53	22.11	1.105	-40.5	Clear	None
921	9	I	8.06	1.587	/	1.48	21.08	1.115	2.6	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: SPLIT-SAMPLED W/CH2M HILL (MATH) LL-14A-013012-01 @ 9:36
1	1.30.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	9:36	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2 h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 1-30-2012 1Q2012

WELL NO. MW-14B Hospital  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 167.00	( ft.)
DEPTH TO WATER 90.35	( ft.)
HEIGHT OF WATER COLUMN 76.65	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 12.49395	(gal)
PURGE VOLUME x 3 = 37.48185	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny / light breeze (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature °C	TDS $\mu L$	ORP mV	Color	Odor
1112	5	ACT TRUCK	8.56	1.518	/	3.21	20.79	1.092	-69.4	Cloudy	None
1119	10	↓	8.64	1.522	/	3.28	19.99	1.094	-145.0	Clear	None
1126	15	↓	8.65	1.534	/	2.96	21.15	1.089	-148.6	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: SPLIT-SAMPLED W/ CH2M HILL (MATH) LL-14B-013012-01 @ 12:20
1	1-30-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1220	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 1.30.2012 4Q 2011

WELL NO. 14 B

SAMPLED BY: F. Sasic

[illegible]



## GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 1.30.2012 1Q2012

WELL NO. MW-14C Hospital  
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 195.00	( ft.)
DEPTH TO WATER 90.60	( ft.)
HEIGHT OF WATER COLUMN 104.40	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 17.0172	(gal)
PURGE VOLUME x 3 = 51.0516	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny/light breeze (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1310	5	VAC TRUCK	8.75	1.573	/	3.62	20.20	1.126	-109.0	Cloudy	Slight
1319	10	↓	8.76	1.546	/	3.80	19.29	1.128	-99.8	Cloudy	Slight
1330	15	↓	8.76	1.579	/	3.16	20.54	1.122	-85.1	Cloudy	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	1.30.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	SPLIT-SAMPLED w/CH2M HILL (Matt) LL-14C-013012-01 @ 1600
1	1600	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$ 

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

WELL NO. 14C

SAMPLED BY: F. Sasic

[illegible]



# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-2-2012 1Q2012

WELL NO. MW-15A Hospital  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 125.00	( ft.)
DEPTH TO WATER 110.25	( ft.)
HEIGHT OF WATER COLUMN 14.75	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS (110.25 - 109.99) = 0.26 FPPH	( ft.)

WELL CONDITION: OK  
corbans FPPH!  
WEATHER CONDITIONS: Clear/sunny (~72°F)  
Breeze picks up in the afternoon  
PURGING AND SAMPLING EQUIPMENT: YSI 556  
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-2-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	(1) Measure FPPH/DTW (2) Put 110' of string down well (3) Top-down FPPH skim begin 10:26 Approx. 45 gallons were purged (end 12:20) of which ~0.5-0.75 gal was product. DTW 110.07 12:25 DTW 109.95 13:00
1	1300	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-2-2012 1Q2012

WELL NO. MW-15B Hospital  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 156.00	( ft.)
DEPTH TO WATER 110.11	( ft.)
HEIGHT OF WATER COLUMN 45.89	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 7.48007	(gal)
PURGE VOLUME x 3 = 22.44021	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Low fog / cool AM (~50°F)  
Warm / clear / sunny by mid-AM

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

0917	5	VAC TRUCK	8.79	1.934	PURGE	DATA 2.64	19.22	1.411	93.6	Light gray	Slight
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0923	10	VT	8.41	1.994	/	2.50	19.66	1.425	-52.1	Light gray	Slight
0930	15	VT	8.34	1.995	/	2.46	20.30	1.421	-63.3	Cloudy	Slight
0937	20	VT	8.25	2.009	/	2.60	20.60	1.430	-68.6	Cloudy	Slight
0942	25	VT	8.17	2.023	/	2.31	21.01	1.424	-69.2	Clear	Slight
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Stinger kept dropping, likely due to silt @ bottom of well				
1	2-2-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-15B-020212-01 @ 10:00				
1	1000	ice	8015M - TPH-g	VOAs	3	HCL					

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



# GROUNDWATER SAMPLING LOG

PAGE 1 of 2

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 1-31-2012 1Q2012

WELL NO. MW-15C Hospital  
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 197.34	(ft.)
DEPTH TO WATER 109.77	(ft.)
HEIGHT OF WATER COLUMN 87.57	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 14.27391	(gal)
PURGE VOLUME x 3 = 42.82173	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

Good

WEATHER CONDITIONS:

Clear/sunny/light breeze  
 Cool AM (~56°F) Warmer PM (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <small>µmS/cm</small>	Turbidity <small>NTUs</small>	DO <small>mg/L</small>	Temperature <small>(F/C)</small>	TDS <small>g/L</small>	ORP <small>mV</small>	Color	Odor
932	5	VAC TRUCK	8.88	1.725	/	5.65	19.90	1.229	67.2	Cloudy	Slight
940	10	↓	8.87	1.727	/	4.17	21.38	1.207	-79.6	Cloudy	Slight
948	15	↓	8.83	1.736	/	4.03	21.69	1.203	-77.0	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	1:31:12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	SPLIT-SAMPLED w/ CH2M HILL (Matt)  LL-15C-013112-01 @ 10:57
1	10:57	ice	8015M - TPH-g	VOAs	3	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2 h (ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 1.31.2012 4Q 2011

WELL NO. 15C

SAMPLED BY: *F. Sosic*

[illegible]



# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-3-2012 1Q2012

WELL NO. MW-16A Walker  
SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	125.00 (ft.)
DEPTH TO WATER	113.40 (ft.)
HEIGHT OF WATER COLUMN	11.60 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 1.8908 (gal)
PURGE VOLUME	x 3 = 5.6724 (gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:  
WELL CONDITION:

GOOD

WEATHER CONDITIONS:  
Clear/sunny (~60°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0912	3	VAC TRUCK	9.10	2.180	/	3.51	18.00	1.626	-72.6	Olive grey	Slight VOC
0925	6	VAC TRUCK	8.49	2.076	/	3.67	14.98	1.664	-70.0	Clear	Slight VOC

Nearly went DRY towards the end of purge (fine mist only)

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-3-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Water took a while before it came up; very slow purging well LL-16A-020312-01 @ 9:36
1	0936	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-3-2012 1Q2012

WELL NO. **MW-16B** Walker  
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>160.00</u> ( ft.)
DEPTH TO WATER	<u>109.46</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>50.54</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>8.23802</u> (gal)
PURGE VOLUME	x 3 = <u>24.71406</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: \_\_\_\_\_  
 WELL CONDITION: \_\_\_\_\_

GOOD

WEATHER CONDITIONS: \_\_\_\_\_

Clear/sunny (~67°F)

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_

YSI 556

Interface probe (200')

0935	5	VAC. TRUCK	8.90	2.002	PURGE	DATA	2.71	19.89	1.394	-192.1	Light gray	Mild CH <sub>4</sub> odor
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp. Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor	
0942	10		9.15	1.936	/	2.39	19.96	1.389	-192.4	Cloudy	Mild	
0950	15		9.26	1.897	/	3.20	19.04	1.392	-193.3	Clear	Mild	
0953	20		9.25	1.975	/	3.00	20.89	1.393	-200.6	Clear	Mild	
1000	25		9.21	1.992	/	2.55	21.30	1.393	-206.7	Clear	Mild	
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:					
1	2-3-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16B-020312-01 @ 10:23					
1	1023	ice	8015M - TPH-g	VOAs	3	HCL						

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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# **GROUNDWATER SAMPLING LOG**

PAGE 1 of 2

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-3-2012 1Q2012

WELL NO. MW-16C Walker  
 SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	196.00 ( ft.)
DEPTH TO WATER	109.12 ( ft.)
HEIGHT OF WATER COLUMN	86.88 ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 14.16144 (gal)
PURGE VOLUME	x 3 = 42.48432 (gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES:  
 WELL CONDITION: GOOD

WEATHER CONDITIONS:  
 Clear/sunny/light breeze (~73°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1300	5	VAC TRUCK	9.25	1.417	/	1.77	22.93	0.957	-272.5	Clear	Mild CH <sub>4</sub> /Sulphur
1306	10	↓	9.14	1.459	/	2.54	22.23	1.002	-259.3	Clear	-11-
1313	15	↓	9.03	1.583	/	2.78	22.30	1.084	-253.7	Clear	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-3-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16C-020312-01 @ 15:00
1	1500	ice	8015M - TPH-g	VOAs	3	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-3-2012 4Q 2011

WELL NO. 16C

SAMPLED BY: F. Sasic

[illegible]



# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-7-2012 1Q2012

WELL NO. W-17A Site  
 SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 110.00	( ft.)
DEPTH TO WATER 96.96	( ft.)
HEIGHT OF WATER COLUMN 13.04	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.12552	(gal)
PURGE VOLUME x 3 = 6.37656	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Rain + wind (~5-15 mph)  
 ~50°F

PURGING AND SAMPLING EQUIPMENT:

YSI S56

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1000	5		8.75	2.126	/	4.62	18.89	1.561	37.2	Cloudy	None
1015	10		8.46	2.211	/	2.87	19.44	1.606	-20.0	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-7-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-17A-020712-01 @ 10:48
1	1048	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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# GROUNDWATER SAMPLING LOG

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PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-7-2012 1Q2012

WELL NO. **W-17B** Site  
 SAMPLED BY: Frane Sosis

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	170.00 ( ft.)
DEPTH TO WATER	98.15 ( ft.)
HEIGHT OF WATER COLUMN	71.85 ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 11.71155 (gal)
PURGE VOLUME	x 3 = 35.13465 (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:  
GOOD

WEATHER CONDITIONS:  
Rain + Wind (~50°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. uS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1027	5	VAC TRUCK	8.77	1.427	/	2.52	18.50	1.113	-172.1	Light gray	Mild
1042	10	↓	8.74	1.485	/	2.65	20.13	1.064	-167.2	11.2	-11-
1054	15	↓	8.77	1.433	/	3.44	18.84	1.056	-165.4	Cloudy	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-7-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-17B-020712-01 @ 12:34
1	1234	ice	8015M - TPH-g	VOAs	3	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



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PROJECT NO.: 1003-001-300

DATE: 2-7-2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sasic

[illegible]

# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-7-2012 1Q2012

WELL NO. W-17C Site  
SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 200.00	( ft.)
DEPTH TO WATER 98.19	( ft.)
HEIGHT OF WATER COLUMN 101.81	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 16.59503	(gal)
PURGE VOLUME x 3 = 49.78509	(gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION:  
GOOD  
WEATHER CONDITIONS:  
Rain + wind (5-15 mph)  
~ 50°F  
PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1335	5	NACTRUCK	8.86	1.404	/	3.63	21.63	1.643	-194.8	Gray	Strong HC/CH <sub>4</sub> /H <sub>2</sub> S
1340	10	↓	8.82	1.390	/	2.19	22.01	1.320	-210.2	Cloudy	Strong
1345	15	↓	8.79	1.300	/	2.26	21.88	1.267	-207.4	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-7-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-17C-020712-01 @ 15:10
1	1510	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2 h (ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 2-7-2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sasic

[illegible]

# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-9-2012 1Q2012

MW-104A

WELL NO. \_\_\_\_\_ Bloomfield  
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	100.00 ( ft.)
DEPTH TO WATER	93.42 ( ft.)
HEIGHT OF WATER COLUMN	6.58 ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 4.3428 (gal)
PURGE VOLUME	x 3 = 13.0284 (gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: \_\_\_\_\_  
 WELL CONDITION: OK (riser does not lock any longer)  
 WEATHER CONDITIONS: Clear/sunny/warm (~77°F)  
 Light breeze  
 PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
950	5	VAC TRUCK	8.79	2.579	/	2.42	22.90	1.748	-14.5	Gray	Light
DRY	10	/	/	/	/	/	/	/	/	Olive	/
DRY	15	/	/	/	/	/	/	/	/	/	/

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES
1	2-9-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist line used for purge Well begins going dry ~ 4 gallons (fine mist) DRY @ approx. 6 gallons Will allow well to re-charge prior to sampling LL-104A-020912-01 @ 1536
1	1536	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-2-2012 1Q2012 2-3-2012  
(PURGED) (SAMPLED)

WELL NO. MW-106A Site  
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	100.00 (ft.)
DEPTH TO WATER	93.42 (ft.)
HEIGHT OF WATER COLUMN	6.58 (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = 4.3428 (gal)
PURGE VOLUME	x 3 = 13.0284 (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear/sunny / light breeze (~72°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5										
	10	***	DRY @ 3 gallons	***							
	13										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-3-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	106A went dry at approx. 2-3 gallons. Well went from producing decent water up to 1 gal. which then turned to a very fine mist, and subsequently hardly any water came up. Will allow to recharge and sample tomorrow.
1	11:13	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

LL-106A-020312-01 @ 11:13

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# **GROUNDWATER SAMPLING LOG**

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 1-31-2012 1Q2012

WELL NO. **MW-107A** Bloomfield  
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER <u>4"</u>	(inches)
DEPTH OF WELL <u>110.00</u>	( ft.)
DEPTH TO WATER <u>104.67</u>	( ft.)
HEIGHT OF WATER COLUMN <u>5.33</u>	( ft.)
CASING VOLUME* <u>Hgt. x 0.163 Gal./Ft. = 3.5178</u>	(gal)
PURGE VOLUME <u>x 3 = 10.5534</u>	(gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: Air-assist line used to purge  
 WELL CONDITION: VERY GOOD

WEATHER CONDITIONS: Clear/sunny/breezy (~74°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <u>µS/cm</u>	Turbidity <u>NTUs</u>	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
<u>1312</u>	<u>5</u>	<u>VAC TRUCK</u>	<u>8.57</u>	<u>1.905</u>	<u>/</u>	<u>3.57</u>	<u>22.52</u>	<u>1.297</u>	<u>-157.7</u>	<u>BLACK</u>	<u>Strong HC decay!</u>
<u>1317</u>	<u>10</u>	<u> </u>	<u>8.89</u>	<u>1.893</u>	<u>/</u>	<u>2.83</u>	<u>23.14</u>	<u>1.277</u>	<u>-228.4</u>	<u>Light gray</u>	<u>SAME</u>
<u>1320</u>	<u>15</u>	<u> </u>	<u>8.92</u>	<u>1.865</u>	<u>/</u>	<u>4.28</u>	<u>22.18</u>	<u>1.280</u>	<u>-234.3</u>	<u>Clear</u>	<u>SAME</u>
<u>1324</u>	<u>20</u>	<u> </u>	<u>8.88</u>	<u>1.926</u>	<u>/</u>	<u>2.60</u>	<u>23.35</u>	<u>1.292</u>	<u>-240.0</u>	<u>Clear</u>	<u>SAME</u>
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
<u>1</u>	<u>1-31-12</u>	<u>ice</u>	<u>8260B - VOCs + Oxys</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>SPLIT-SAMPLED w/ CH2M HILL (Matt)</u>  <u>LL-107A-013112-01 @ 13:45</u>				
<u>1</u>	<u>1345</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>					

## **ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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# GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 1-31-2012 1Q2012

WELL NO. MW-503B Lakeland  
 SAMPLED BY: Frane Sasic

WELL NOTES: Air-assist used to purge  
 WELL CONDITION: POOR (lid has no bolts)

WEATHER CONDITIONS: Clear/sunny/breezy (~72°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI S56  
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 100.31	(ft.)
HEIGHT OF WATER COLUMN 9.69	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 6.3954	(gal)
PURGE VOLUME x 3 = 19.1862	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1424	5	VAC TRUCK	8.60	1.864	/	4.64	22.44	1.272	-124.7	Olive gray	Strong HC/CH <sub>4</sub>
1429	10	I	8.47	1.887	/	3.30	22.61	1.283	-142.5	Cloudy	-11-
1434	15	I	8.46	1.890	/	2.67	22.55	1.281	-146.0	Clear	-11-
1438	20	I	8.50	1.876	/	3.06	22.51	1.279	-150.6	Clear	-11-
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	1-31-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	SPLIT-SAMPLED w/ CH2M HILL (Matt)  LL_503B_013112_01 @ 15:00 LL_503B_013112_02 @ 15:10 * CH2M HILL collected DUP @ 503B as well *				
1	1500	ice	8015M - TPH-g	VOAs	3	HCL					
2	1-31-12	ice	8260B (VOCs)	VOAs	3	HCL					
2	1510	ice	8015M (TPHg)	VOAs	3	HCL					

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

# GROUNDWATER SAMPLING LOG

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PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-1-2012 1Q2012

WELL NO. MW-701 Hospital  
SAMPLED BY: Frane Sosis

Well Notes: New 4" well Air-assist used to purge

WELL CONDITION:

EXCELLENT

WEATHER CONDITIONS:

Mostly clear & sunny (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	98.85 (ft.)
HEIGHT OF WATER COLUMN	31.15 (ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 20.559 (gal)
PURGE VOLUME	x 3 = 61.677 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1317	5	VAC TRUCK	8.63	1.967	/	4.43	23.34	1.320	-25.4	Cloudy	Mild
1319	10	↓	8.33	1.956	/	2.92	22.98	1.323	-60.0	Cloudy	Slight
1321	15	↓	8.30	1.944	/	3.05	22.77	1.319	-67.3	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
1	2-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1400	ice	8015M - TPH-g	VOAs	3	HCL	SPLIT-SAMPLED w/ CH2M HILL (Math)
							LL-701-020112-01 @ 1400

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 2-1-2012 4Q 2011

WELL NO. MW-701

SAMPLED BY: F. Sasic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-9-2012 1Q2012

WELL NO. MW-702 Hospital  
 SAMPLED BY: Frane Sosic

Well Notes: New 4" well

WELL CONDITION:

OK - bolts getting warped

WEATHER CONDITIONS:

Clear/sunny/warm (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	98.74 (ft.)
HEIGHT OF WATER COLUMN	31.26 (ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 20.6316 (gal)
PURGE VOLUME	x 3 = 61.8948 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1053	5	VAC TRUCK	8.30	2.252	1	2.65	24.96	1.466	-75.5	Olive gray	Mild
1056	10	↓	8.05	2.272	1	1.98	25.20	1.467	-63.6	-11-	-11-
1100	15	↓	7.94	2.277	1	2.18	25.56	1.477	-99.2	Gray	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-9-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-line used for purge
1	1300	ice	8015M - TPH-g	VOAs	3	HCL	Good H <sub>2</sub> O production in MW-702
2	2-9-12	ice	8260B	VOAs	3	HCL	LL-702-020912-01 @ 13:00
2	1313	ice	8015M	VOAs	3	HCL	LL-702-020912-02 @ 13:13

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



## Additional Groundwater Quality Parameters

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PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 2-9-2012 4Q 2011

WELL NO.

MW-702SAMPLED BY: F. Sasic

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp. Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1101	20	VAC TRUCK	8.01	2.266	/	2.43	25.10	1.471	-118.3	Grey	Mild
1103	25		8.01	2.250	/	2.52	24.88	1.466	-116.2	Light gray	Mild
1105	30		8.00	2.271	/	2.37	25.50	1.473	-126.4	Light gray	Mild
1108	35		8.01	2.276	/	2.73	25.82	1.465	-118.3	Cloudy	Mild
1111	40		7.98	2.276	/	2.00	25.68	1.460	-120.6	Clear	Mild
1113	45		8.00	2.272	/	2.97	25.54	1.460	-119.8	Clear	Mild
1115	50		7.99	2.295	/	4.16	26.10	1.462	-90.9	Clear	Mild
1120	55		8.00	2.208	/	3.82	25.83	1.418	-57.6	Clear	Mild
1122	60		7.97	2.253	/	4.05	26.23	1.430	-68.0	Olive gray	Stronger
1126	65		7.94	2.246	/	4.00	25.90	1.436	-59.8	Gray	Strong
1128	70		7.96	2.259	/	4.32	25.88	1.442	-70.7	Olive gray	Strong
1131	75		7.92	2.255	/	4.33	25.82	1.443	-60.2	Light gray	Strong
1134	80		7.93	2.254	/	4.75	25.74	1.445	-63.5	Cloudy	Strong
1137	85		7.88	2.272	/	4.33	25.93	1.448	-66.4	Clear	Mild
1140	90		7.89	2.279	/	4.26	26.00	1.458	-60.2	Clear	Mild
1142	95		7.84	2.277	/	4.55	25.78	1.454	-70.1	Clear	Mild
1145	100		7.89	2.271	/	4.73	25.67	1.454	-60.7	Clear	Mild

Transfer  
50 gal.  
from 100  
to 100

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2.14.2012 1Q2012

WELL NO. MW-703 Hospital  
 SAMPLED BY: Frane Sasic

Well Notes: New 4" well H<sub>2</sub>S/CH<sub>4</sub>!

WELL CONDITION:  
 GREAT (riser well)

WEATHER CONDITIONS:  
 Clear/sunny/light breeze (~65°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 100.23	(ft.)
HEIGHT OF WATER COLUMN 29.77	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 19.6482	(gal)
PURGE VOLUME x 3 = 58.9446	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu$ S/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0930	5	VAC TRUCK	8.33	1.793	/	2.77	20.37	1.280	-13.1	Cloudy	Slight
0932	10	↓	8.30	1.786	/	3.28	20.62	1.264	-28.3	Cloudy	Slight
	15	↓	8.28	1.801	/	3.37	21.35	1.256	-34.4	Clear	Almost none

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2.14.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist line used for purge LL-703-021412-01 @ 10:07
1	1007	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$ 

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-14-2012 4Q 2011

WELL NO. MW-703

SAMPLED BY: F. Sasic

[illegible]

# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2.14.2012 1Q2012

WELL NO. MW-704 Hospital  
 SAMPLED BY: Frane Sasic

Well Notes: New 4" well

WELL CONDITION:  
 VERY GOOD

WEATHER CONDITIONS:  
 Clear/sunny/light freeze (~72°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 102.11	(ft.)
HEIGHT OF WATER COLUMN 27.89	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 18.4074	(gal)
PURGE VOLUME x 3 = 55.2222	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1058	5	VAC TRUCK	8.04	2.215	/	3.73	21.36	1.554	-64.2	Trans. grey	Strong
1100	10	↓	8.00	2.232	/	3.29	21.97	1.542	-68.7	Dark grey	Strong
1103	15	↓	7.96	2.239	/	3.76	21.72	1.553	-67.6	Olive green	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Air-assist line used for purge  LL-704-021412-01 @ 12:45  LL-704-021412-02 @ 13:00
1	2.14.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1245	ice	8015M - TPH-g	VOAs	3	HCL	
2	2.14.12	ice	8260B	VOAs	3	HCL	
2	1300	ice	8015M	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.14.2012 4Q 2011

WELL NO. MW-704

SAMPLED BY: F. Sasic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2.14.2012 1Q2012

WELL NO. MW-705 Hospital  
 SAMPLED BY: Frane Sasic

Well Notes: New 4" well

WELL CONDITION:

GREAT (riser well)

WEATHER CONDITIONS:

Scattered clouds / windy (~70°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 103.39	(ft.)
HEIGHT OF WATER COLUMN 26.61	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 17.5626	(gal)
PURGE VOLUME x 3 = 52.6878	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS $\mu L$	ORP mV	Color	Odor
1347	5	VAC TRUCK	8.54	2.178	/	5.07	22.63	1.482	-63.0	Olive	Strong
1349	10	↓	8.37	2.243	/	2.96	23.37	1.503	-60.5	Olive gray	Strong
1350	15	↓	8.23	2.250	/	3.13	23.28	1.516	-63.1	Light gray	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2.14.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist used for purge LL-705-021412-01 @ 1420 LL-705-021412-02 @ 1430
1	1420	ice	8015M - TPH-g	VOAs	3	HCL	
2	2.14.12	ice	8260B	VOAs			
2	1430	ice	8015M	VOAs			

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot



## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-14-2012 4Q 2011

WELL NO.

SAMPLED BY: *F. Sasic*

[illegible]



## GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-14-2012 1Q2012

WELL NO. MW-706 Hospital  
 SAMPLED BY: Frane Sasic

Well Notes: New 4" well

WELL CONDITION:  
 GREAT

WEATHER CONDITIONS:  
 Mostly sunny/light wind (~72°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 100.00	(ft.)
HEIGHT OF WATER COLUMN 30.00	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 19.8	(gal)
PURGE VOLUME x 3 = 59.4	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS $\mu L$	ORP $\mu V$	Color	Odor
1434	5	VAC TRUCK	7.96	2.022	/	4.75	20.99	1.426	-80.4	Clear	Strong
1457	10	I	8.23	2.130	/	3.40	23.15	1.427	-77.7	Clear	Strong
1501	15	↓	8.23	2.135	/	3.69	23.77	1.422	-80.5	Clear	/

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-14-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist used for purge  LL_706_021412_01 @ 15:44
1	1544	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.14.2012 4Q 2011

WELL NO. MW-706

SAMPLED BY: F. Sasic

[illegible]



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-1-2012 1Q2012

WELL NO. MW-707 Lakeland  
SAMPLED BY: Frane Sosic

Well Notes: New 4" well Air-assist used to purge

WELL CONDITION:

EXCELLENT

WEATHER CONDITIONS:

Clear/sunny/warmer PM (~76°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	96.96 (ft.)
HEIGHT OF WATER COLUMN	33.04 (ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 21.8064 (gal)
PURGE VOLUME	x 3 = 65.4192 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1119	5	VAC TRUCK	8.42	1.916	/	2.98	21.95	1.321	-143.5	Light gray	Strong
1121	10		8.37	1.943	/	3.50	23.00	1.309	-157.9	Cloudy	Strong
1123	15		8.30	1.950	/	3.57	23.34	1.309	-158.6	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	SPLIT-SAMPLED w/ CH2M HILL (Math)  LL-707-020112-01 @ 12:00 5 VOAs total!
1	1200	ice	8015M - TPH-g	VOAs	2	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-1-2012 4Q 2011

WELL NO. MW-707

SAMPLED BY: F. Sosic

[illegible]



# **GROUNDWATER SAMPLING LOG**

PAGE 1 of 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2.10.2012 1Q2012

WELL NO. MW-708 Hospital  
SAMPLED BY: Frane Sosic

Well Notes: May contain FPPH

WELL CONDITION: GREAT

WEATHER CONDITIONS: Clear/sunny/light breeze (~73°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI S56  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 ( ft.)
DEPTH TO WATER	96.46 ( ft.)
HEIGHT OF WATER COLUMN	33.54 ( ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 22.1364 (gal)
PURGE VOLUME	x 3 = 66.4092 (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0955	5	VAC TRUCK	8.84	2.244	/	3.09	23.20	1.511	12.3	Light gray	Strong
0958	10	↓	8.65	2.276	/	2.91	24.00	1.506	-80.4	Cloudy	Strong
1000	15	↓	8.40	2.270	/	2.84	23.86	1.503	-123.4	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2.10.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-line used for purge  LL-708-021012-01 @ 10:30
1	1030	ice	8015M - TPH-g	VOAs	3	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.10.2012 4Q 2011

WELL NO. MW-708

SAMPLED BY: F. Sosic

[illegible]



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-10-2012 1Q2012

WELL NO. MW-709 Hospital  
SAMPLED BY: Frane Susic

Well Notes:  
WELL CONDITION:

GREAT

WEATHER CONDITIONS:  
Clear/sunny/light breeze (~75°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	109.88 (ft.)
HEIGHT OF WATER COLUMN	20.12 (ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 13.2792 (gal)
PURGE VOLUME	x 3 = 39.8376 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1107	5	VAC TRUCK	8.42	2.361	/	3.50	23.09	1.594	-82.1	Cloudy	Mild
1110	10	↓	8.28	2.334	/	2.85	22.93	1.581	-73.9	Clear	Mild
1112	15	↓	8.27	2.302	/	2.73	22.32	1.576	-80.5	Clear	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-10-12	ice	8260B - VOCs + Olys	VOAs	3	HCL	Purge slowed down ~ 20-25 gallons
1	1200	ice	8015M - TPH-g	VOAs	3	HCL	LL-709-021012-01 @ 1200

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

DATE: 2.10.2012 4Q 2011

WELL NO. MW-709

SAMPLED BY: F. Sasic

[illegible]



# **GROUNDWATER SAMPLING LOG**

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-1-2014 1Q2012

WELL NO. MW-710 Hospital  
SAMPLED BY: Frane Sosis

Well Notes: Air-assist used to purge  
WELL CONDITION:

EXCELLENT

WEATHER CONDITIONS:  
Low fog/cool AM (~50°F)

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	( ft.)
DEPTH TO WATER 93.67	( ft.)
HEIGHT OF WATER COLUMN 36.33	( ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 23.9778	(gal)
PURGE VOLUME x 3 = 71.9334	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. uS/cm	Turbidity NTUs	DO mg/L	Temperature ( F/C )	TDS g/L	ORP mV	Color	Odor
835	5	VAC TRUCK	9.48	1.629	1	3.36	19.60	1.176	46.2	Olive gray	Slight
836	10	↓	9.08	1.697	1	3.10	21.21	1.185	-62.0	same	same
837	15	↓	8.92	1.691	1	4.53	21.10	1.188	-76.9	same	same

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: SPLIT-SAMPLED w/ CH2M HILL (Matt)  LL-710-020112 01 @ 9:13
1	2-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	0913	ice	8015M - TPH-g	VOAs	3	HCL	

## **ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-1-2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sasic

[illegible]



# **GROUNDWATER SAMPLING LOG**

PAGE 1 OF 2

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-10-2012 1Q2012

WELL NO. **MW-711** Hospital  
 SAMPLED BY: Frane Sosic

Well Notes: \_\_\_\_\_  
 WELL CONDITION: GREAT

WEATHER CONDITIONS: Clear/sunny/light breeze (~75°F)

PURGING AND SAMPLING EQUIPMENT:  
 YSI 556  
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>130.00</u> ( ft.)
DEPTH TO WATER	<u>101.00</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>29.00</u> ( ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = <u>19.14</u> (gal)
PURGE VOLUME	x 3 = <u>57.42</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <u>µS/cm</u>	Turbidity <u>NTUs</u>	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
<u>1318</u>	<u>5</u>	<u>VAC TRUCK</u>	<u>8.44</u>	<u>1.784</u>	<u>1</u>	<u>3.77</u>	<u>23.82</u>	<u>1.186</u>	<u>-41.3</u>	<u>Black</u>	<u>Strong!</u>
<u>1319</u>	<u>10</u>	<u>↓</u>	<u>8.30</u>	<u>1.774</u>	<u>1</u>	<u>3.84</u>	<u>23.29</u>	<u>1.193</u>	<u>-95.6</u>	<u>Gray</u>	<u>Strong!</u>
<u>1321</u>	<u>15</u>	<u>↓</u>	<u>8.12</u>	<u>1.779</u>	<u>1</u>	<u>2.79</u>	<u>22.58</u>	<u>1.210</u>	<u>-119.0</u>	<u>Olive-gray</u>	<u>Strong!</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
<u>1</u>	<u>2-10-12</u>	<u>ice</u>	<u>8260B - VOCs + OxyS</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>Air-assist line used for purge</u>  <u>LL-711-021012-01 @ 15:00</u>
<u>1</u>	<u>1500</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.10.2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sosic

[illegible]



# GROUNDWATER SAMPLING LOG

PAGE 1 of 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-13-2012 1Q2012

WELL NO. MW-712 Hospital  
SAMPLED BY: Frane Sasic

Well Notes:  
WELL CONDITION: GREAT

WEATHER CONDITIONS: Cloudy/windy/40% chance of rain ~ 59°F

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER 98.70	( ft.)
HEIGHT OF WATER COLUMN 31.30	( ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 20.658	(gal)
PURGE VOLUME x 3 = 61.974	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
0928	5	VAC TRUCK	8.00	1.747	1	4.83	20.63	1.237	-155.4	Gray	Strong! (Gasoline)
0931	10	↓	7.97	1.794	1	2.77	21.94	1.241	-169.3	Cloudy	Strong
0933	15	↓	8.01	1.792	1	2.22	22.15	1.229	-169.6	Light gray	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-13-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-assist used for purge LL-712-021312-01 @ 10:35
1	1035	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.13.2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sasic

[illegible]

KO  
Transfer  
e 50 gal



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
 PROJECT NO.: 1003-001-300  
 DATE: 2-13-2012 1Q2012

WELL NO. MW-713 Hospital  
 SAMPLED BY: Frane Sasic

Well Notes: \_\_\_\_\_  
 WELL CONDITION: GREAT

WEATHER CONDITIONS: Cloudy/windy/30% chance of rain  
~50°F

PURGING AND SAMPLING EQUIPMENT:  
YSI 556  
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	<u>104.90</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>25.10</u> ( ft.)
CASING VOLUME*	Hgt. x <u>0.66</u> Gal./Ft. = <u>16.566</u> (gal)
PURGE VOLUME	x 3 = <u>49.698</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
<u>1050</u>	<u>5</u>	<u>VAC TRUCK</u>	<u>8.17</u>	<u>2.015</u>	<u>1</u>	<u>4.43</u>	<u>20.62</u>	<u>1.431</u>	<u>-61.2</u>	<u>Cloudy</u>	<u>Strong</u>
<u>1053</u>	<u>10</u>	<u>↓</u>	<u>8.15</u>	<u>2.049</u>	<u>1</u>	<u>3.50</u>	<u>21.38</u>	<u>1.428</u>	<u>-69.3</u>	<u>Cloudy</u>	<u>Strong</u>
<u>1056</u>	<u>15</u>	<u>↓</u>	<u>8.12</u>	<u>2.068</u>	<u>1</u>	<u>4.21</u>	<u>21.68</u>	<u>1.435</u>	<u>-76.7</u>	<u>Clear</u>	<u>Strong</u>

*sharp odor*

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
<u>1</u>	<u>2-13-12</u>	<u>ice</u>	<u>8260B - VOCs + OxyS</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>Air-assist used for purge</u>  <u>LL-713-021312-01 @ 12:23</u>
<u>1</u>	<u>1223</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.13.2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sosic

[illegible]



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-13-2012 1Q2012

WELL NO. MW-714 Hospital  
SAMPLED BY: Frane Sosic

Well Notes:

WELL CONDITION:

GREAT

WEATHER CONDITIONS:

Light rain/cloudy/windy (~58°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	135.00 ( ft.)
DEPTH TO WATER	104.52 ( ft.)
HEIGHT OF WATER COLUMN	30.48 ( ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 20.1168 (gal)
PURGE VOLUME	x 3 = 60.3504 (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1305	5	VAC TRUCK	8.61	2.484	/	4.67	19.49	1.811	-73.3	Clear	None
1308	10	↓	8.30	2.570	/	3.46	21.03	1.813	-81.7	Clear	None
1312	15	↓	8.17	2.624	/	3.65	21.64	1.820	-94.5	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-13-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Air-assist used for purge
1	1540	ice	8015M - TPH-g	VOAs	3	HCL	
2	2-13-12	ice	8260B	VOAs	3	HCL	LL-714-021312-01 @ 15:40
2	1546	ice	8015 M	VOAs	3	HCL	LL-714-021312-02 @ 15:46

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2.13.2012 4Q 2011

WELL NO.

SAMPLED BY: F. Sasic

[illegible]



# GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO  
PROJECT NO.: 1003-001-300  
DATE: 2-1-2012 1Q2012

WELL NO. MW-715 Hospital  
SAMPLED BY: Frane Sasic

Well Notes: Air-assist used to purge  
WELL CONDITION:

EXCELLENT

WEATHER CONDITIONS:

Low clouds / cool ~ 70°F

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	( ft.)
DEPTH TO WATER 96.06	( ft.)
HEIGHT OF WATER COLUMN 33.94	( ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 22.4004	(gal)
PURGE VOLUME x 3 = 67.2012	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1003	5	VAC TRUCK	8.59	1.566	/	3.42	19.92	1.124	-146.5	Cloudy	Strong
1005	10	↓	8.47	1.640	/	3.16	22.00	1.127	-157.5	Cloudy	Strong
1006	15	↓	8.43	1.666	/	3.05	21.97	1.149	-177.4	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	2-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	SPLIT-SAMPLED w/ CH2M HILL (Meth) LL-715-020112-01 @ 10:44
1	1044	ice	8015M - TPH-g	VOAs	3	HCL	

## ADDITIONAL INFORMATION:

TOC = Top of well casing

\*Casing Volume =  $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 2-1-2012 4Q 2011

WELL NO. MW-715

SAMPLED BY: F. Sosic

[illegible]



## **Appendix B**



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

01 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 01/30/12 16:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_14A_013012_01	T120141-01	Water	01/30/12 09:36	01/30/12 16:46
LL_14B_013012_01	T120141-02	Water	01/30/12 12:20	01/30/12 16:46
LL_14C_013012_01	T120141-03	Water	01/30/12 16:00	01/30/12 16:46
LL_TB_013012	T120141-04	Water	01/30/12 00:00	01/30/12 16:46

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14A\_013012\_01**

**T120141-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	200	50	ug/l	1	2013119	01/31/12	01/31/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		99.3 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2012709	"	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>10</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14A\_013012\_01**  
**T120141-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>2.5</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>5.0</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>3.2</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>1.5</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>38</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/01/12 15:14
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**LL\_14A\_013012\_01**  
**T120141-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>104 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>109 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>98.1 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14B\_013012\_01**  
**T120141-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>220</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2013119</b>	<b>01/31/12</b>	<b>01/31/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene		99.9 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2012709	"	02/01/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>3.1</b>	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethene</b>	<b>55</b>	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>12</b>	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14B\_013012\_01**  
**T120141-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
<b>Tetrachloroethene</b>	<b>22</b>	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>100</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14B\_013012\_01**  
**T120141-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		107 %	81-136		"	"	"	"
Surrogate: Toluene-d8		96.5 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14C\_013012\_01**  
**T120141-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>100</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2013119</b>	<b>01/31/12</b>	<b>01/31/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene		97.5 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2012709	"	02/01/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethene</b>	<b>2.2</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
<b>cis-1,2-Dichloroethene</b>	<b>5.3</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_14C\_013012\_01**  
**T120141-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>3.4</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/01/12 15:14
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**LL\_14C\_013012\_01**  
**T120141-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		107 %	81-136		"	"	"	"
Surrogate: Toluene-d8		97.4 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_TB\_013012**  
**T120141-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_TB\_013012**  
**T120141-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**LL\_TB\_013012**  
**T120141-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2012709	01/31/12	02/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	102 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	107 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	97.1 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

### Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2013119 - EPA 5030 GC

##### Blank (2013119-BLK1)

Prepared & Analyzed: 01/31/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	101		"	100		101	72.6-146			

##### LCS (2013119-BS1)

Prepared & Analyzed: 01/31/12

C6-C12 (GRO)	5060	50	ug/l	5500		92.0	75-125			
Surrogate 4-Bromofluorobenzene	98.4		"	100		98.4	72.6-146			

##### Matrix Spike (2013119-MS1)

Source: T120141-01

Prepared & Analyzed: 01/31/12

C6-C12 (GRO)	5060	50	ug/l	5500	201	88.4	65-135			
Surrogate 4-Bromofluorobenzene	99.8		"	100		99.8	72.6-146			

##### Matrix Spike Dup (2013119-MSD1)

Source: T120141-01

Prepared & Analyzed: 01/31/12

C6-C12 (GRO)	5160	50	ug/l	5500	201	90.2	65-135	1.96	20	
Surrogate 4-Bromofluorobenzene	102		"	100		102	72.6-146			

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2012709 - EPA 5030 GCMS**

**Blank (2012709-BLK1)**

Prepared & Analyzed: 01/31/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2012709 - EPA 5030 GCMS

##### Blank (2012709-BLK1)

Prepared & Analyzed: 01/31/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	8.20		"
Surrogate Dibromofluoromethane	8.45		"
Surrogate Toluene-d8	7.91		"

8.00 102 83.5-119  
8.00 106 81-136  
8.00 98.9 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/01/12 15:14

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2012709 - EPA 5030 GCMS

##### LCS (2012709-BS1)

Prepared: 01/31/12 Analyzed: 02/01/12

Chlorobenzene	20.8	1.0	ug/l	20.0		104	75-125			
1,1-Dichloroethene	20.5	1.0	"	20.0		103	75-125			
Trichloroethene	22.8	1.0	"	20.0		114	75-125			
Benzene	22.1	0.50	"	20.0		110	75-125			
Toluene	19.6	0.50	"	20.0		98.0	75-125			
Surrogate 4-Bromofluorobenzene	7.56		"	8.00		94.5	83.5-119			
Surrogate Dibromofluoromethane	8.88		"	8.00		111	81-136			
Surrogate Toluene-d8	7.50		"	8.00		93.8	88.8-117			

##### LCS Dup (2012709-BSD1)

Prepared: 01/31/12 Analyzed: 02/01/12

Chlorobenzene	22.3	1.0	ug/l	20.0		111	75-125	6.97	20	
1,1-Dichloroethene	21.4	1.0	"	20.0		107	75-125	4.34	20	
Trichloroethene	24.5	1.0	"	20.0		123	75-125	7.19	20	
Benzene	23.2	0.50	"	20.0		116	75-125	4.82	20	
Toluene	21.5	0.50	"	20.0		107	75-125	9.15	20	
Surrogate 4-Bromofluorobenzene	7.45		"	8.00		93.1	83.5-119			
Surrogate Dibromofluoromethane	8.99		"	8.00		112	81-136			
Surrogate Toluene-d8	7.56		"	8.00		94.5	88.8-117			

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/01/12 15:14
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### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



## Chain of Custody Record

Date: 1-30-2012 Page: 1 OF 1  
Project Name: CENCO  
Collector: Frane Sosic Client Project #: 1003-001-300  
Batch #: T120M1 EDF #:

[illegible]

## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120141

Client Name: MUREX ENV.

Project: CENCO

Received by: DAN

Date/Time Received: 1-30-12 / 16:46

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other \_\_\_\_\_

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 3.2 °C +/- the CF (- 0.2°C) = 3.0 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 1-31-12

Comments:




25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

03 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 01/31/12 15:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_15C_013112_01	T120150-01	Water	01/31/12 10:57	01/31/12 15:51
LL_107A_013112_01	T120150-02	Water	01/31/12 13:45	01/31/12 15:51
LL_503B_013112_01	T120150-03	Water	01/31/12 15:00	01/31/12 15:51
LL_503B_013112_02	T120150-04	Water	01/31/12 15:10	01/31/12 15:51
LL_TB_013112	T120150-05	Water	01/31/12 00:00	01/31/12 15:51

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_15C\_013112\_01**

**T120150-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	53	50	ug/l	1	2020115	02/01/12	02/01/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		99.1 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>5.8</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_15C\_013112\_01**  
**T120150-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>4.9</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_15C\_013112\_01**  
**T120150-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Tert-butyl alcohol</b>	<b>10</b>	10	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		95.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_107A\_013112\_01**  
**T120150-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>500</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020115</b>	<b>02/01/12</b>	<b>02/01/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	97.8 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>7.8</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_107A\_013112\_01**  
**T120150-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>15</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>9.7</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>3.6</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>0.97</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>0.54</b>	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/03/12 11:10
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**LL\_107A\_013112\_01**  
**T120150-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		97.2 %	81-136		"	"	"	"
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_503B\_013112\_01**  
**T120150-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>5400</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020115</b>	<b>02/01/12</b>	<b>02/01/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	99.1 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>6.2</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>6.1</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
<b>1,2-Dichloroethane</b>	<b>2.0</b>	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>3.3</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_503B\_013112\_01**  
**T120150-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>14</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>150</b>	5.0	"	5	"	"	"	"
<b>n-Propylbenzene</b>	<b>34</b>	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>57</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>300</b>	5.0	"	5	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>250</b>	2.5	"	5	"	"	"	"
<b>Toluene</b>	<b>120</b>	2.5	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>270</b>	2.5	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>580</b>	5.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>290</b>	2.5	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/03/12 11:10
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**LL\_503B\_013112\_01**  
**T120150-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		99.0 %	81-136		"	"	"	"
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_503B\_013112\_02**  
**T120150-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>5200</b>	50	ug/l	1	2020115	02/01/12	02/01/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		99.2 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>5.9</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>5.5</b>	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dichloroethane</b>	<b>2.1</b>	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>3.5</b>	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_503B\_013112\_02**  
**T120150-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>13</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>170</b>	5.0	"	5	"	"	"	"
<b>n-Propylbenzene</b>	<b>32</b>	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>55</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>340</b>	5.0	"	5	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>280</b>	2.5	"	5	"	"	"	"
<b>Toluene</b>	<b>120</b>	2.5	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>300</b>	2.5	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>650</b>	5.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>330</b>	2.5	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_503B\_013112\_02**  
**T120150-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		102 %	81-136		"	"	"	"
Surrogate: Toluene-d8		99.2 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_TB\_013112**  
**T120150-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_TB\_013112**  
**T120150-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**LL\_TB\_013112**  
**T120150-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020114	02/01/12	02/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	104 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	98.1 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

## Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020115 - EPA 5030 GC

##### Blank (2020115-BLK1)

Prepared & Analyzed: 02/01/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	92.2		"	100		92.2	72.6-146			

##### LCS (2020115-BS1)

Prepared & Analyzed: 02/01/12

C6-C12 (GRO)	5160	50	ug/l	5500		93.8	75-125			
Surrogate 4-Bromofluorobenzene	104		"	100		104	72.6-146			

##### Matrix Spike (2020115-MS1)

Source: T120150-02

Prepared & Analyzed: 02/01/12

C6-C12 (GRO)	5790	50	ug/l	5500	498	96.3	65-135			
Surrogate 4-Bromofluorobenzene	105		"	100		105	72.6-146			

##### Matrix Spike Dup (2020115-MSD1)

Source: T120150-02

Prepared & Analyzed: 02/01/12

C6-C12 (GRO)	5900	50	ug/l	5500	498	98.1	65-135	1.77	20	
Surrogate 4-Bromofluorobenzene	101		"	100		101	72.6-146			

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020114 - EPA 5030 GCMS**

**Blank (2020114-BLK1)**

Prepared & Analyzed: 02/01/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020114 - EPA 5030 GCMS**

**Blank (2020114-BLK1)**

Prepared & Analyzed: 02/01/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.91		"	8.00		98.9	83.5-119			
Surrogate Dibromofluoromethane	6.62		"	8.00		82.8	81-136			
Surrogate Toluene-d8	7.92		"	8.00		99.0	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020114 - EPA 5030 GCMS

##### LCS (2020114-BS1)

Prepared & Analyzed: 02/01/12

Chlorobenzene	22.3	1.0	ug/l	20.0		111	75-125			
1,1-Dichloroethene	21.3	1.0	"	20.0		107	75-125			
Trichloroethene	21.5	1.0	"	20.0		108	75-125			
Benzene	22.2	0.50	"	20.0		111	75-125			
Toluene	22.0	0.50	"	20.0		110	75-125			
Surrogate 4-Bromofluorobenzene	7.81		"	8.00		97.6	83.5-119			
Surrogate Dibromofluoromethane	8.63		"	8.00		108	81-136			
Surrogate Toluene-d8	7.74		"	8.00		96.8	88.8-117			

##### Matrix Spike (2020114-MS1)

Source: T120150-01

Prepared & Analyzed: 02/01/12

Chlorobenzene	23.9	1.0	ug/l	20.0	ND	120	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0	1.46	104	75-125			
Trichloroethene	25.3	1.0	"	20.0	4.86	102	75-125			
Benzene	23.0	0.50	"	20.0	0.250	114	75-125			
Toluene	22.8	0.50	"	20.0	ND	114	75-125			
Surrogate 4-Bromofluorobenzene	8.36		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	8.74		"	8.00		109	81-136			
Surrogate Toluene-d8	7.77		"	8.00		97.1	88.8-117			

##### Matrix Spike Dup (2020114-MSD1)

Source: T120150-01

Prepared & Analyzed: 02/01/12

Chlorobenzene	22.5	1.0	ug/l	20.0	ND	112	75-125	6.12	20	
1,1-Dichloroethene	21.5	1.0	"	20.0	1.46	100	75-125	3.74	20	
Trichloroethene	25.1	1.0	"	20.0	4.86	101	75-125	0.635	20	
Benzene	22.6	0.50	"	20.0	0.250	112	75-125	1.88	20	
Toluene	22.4	0.50	"	20.0	ND	112	75-125	1.91	20	
Surrogate 4-Bromofluorobenzene	7.87		"	8.00		98.4	83.5-119			
Surrogate Dibromofluoromethane	7.84		"	8.00		98.0	81-136			
Surrogate Toluene-d8	7.74		"	8.00		96.8	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/03/12 11:10

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



## Chain of Custody Record

Date: 1-31-2012 Page: 1 OF 1  
Project Name: CENCO  
Collector: Frane Sosic Client Project #: 1003-001-300  
Batch #: 7120150 EDF #: \_\_\_\_\_

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120150

Client Name: MUREX ENV.

Project: CENCO

Received by: Sunny

Date/Time Received: 1-31-12 / 15:51

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 8.8 °C +/- the CF (- 0.2°C) = 8.6 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 1-31-12

Comments:

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25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

06 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/01/12 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_710_020112_01	T120159-01	Water	02/01/12 09:13	02/01/12 15:00
LL_715_020112_01	T120159-02	Water	02/01/12 10:44	02/01/12 15:00
LL_707_020112_01	T120159-03	Water	02/01/12 12:00	02/01/12 15:00
LL_701_020112_01	T120159-04	Water	02/01/12 14:00	02/01/12 15:00
LL_TB_020112	T120159-05	Water	02/01/12 14:00	02/01/12 15:00

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_710\_020112\_01**

**T120159-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>170</b>	50	ug/l	1	2020301	02/03/12	02/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		86.6 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>6.0</b>	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethene</b>	<b>71</b>	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>23</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_710\_020112\_01**  
**T120159-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
<b>Tetrachloroethene</b>	<b>66</b>	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>110</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_710\_020112\_01**  
**T120159-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<b>1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)</b>	<b>11</b>	<b>5.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
Surrogate: 4-Bromofluorobenzene		95.5 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		91.8 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_715\_020112\_01**  
**T120159-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>860</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020301</b>	<b>02/03/12</b>	<b>02/06/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene	88.2 %	72.6-146	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_715\_020112\_01**  
**T120159-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>3.5</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>270</b>	5.0	"	10	"	"	"	"
<b>Toluene</b>	<b>2.6</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>1.7</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>5.6</b>	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>1.1</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/06/12 16:50
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**LL\_715\_020112\_01**  
**T120159-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	93.2 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_707\_020112\_01**  
**T120159-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>10000</b>	50	ug/l	1	2020301	02/03/12	02/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		98.8 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>12</b>	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_707\_020112\_01**  
**T120159-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>22</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>110</b>	5.0	"	5	"	"	"	"
<b>n-Propylbenzene</b>	<b>48</b>	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>69</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>220</b>	5.0	"	5	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>1200</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>150</b>	2.5	"	5	"	"	"	"
<b>Ethylbenzene</b>	<b>100</b>	2.5	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>1100</b>	25	"	25	"	"	"	"
<b>o-Xylene</b>	<b>96</b>	2.5	"	5	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/06/12 16:50
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**LL\_707\_020112\_01**  
**T120159-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		99.6 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		94.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_701\_020112\_01**  
**T120159-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>300</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020301</b>	<b>02/03/12</b>	<b>02/06/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene	89.4 %	72.6-146	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020302	02/03/12	02/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethene</b>	<b>4.3</b>	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>14</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_701\_020112\_01**  
**T120159-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020302	02/03/12	02/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>8.9</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_701\_020112\_01**  
**T120159-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020302	02/03/12	02/06/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_TB\_020112**  
**T120159-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**LL\_TB\_020112**  
**T120159-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/06/12 16:50
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**LL\_TB\_020112**  
**T120159-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020302	02/03/12	02/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	98.2 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	92.6 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020301 - EPA 5030 GC</b>										
<b>Blank (2020301-BLK1)</b>				Prepared: 02/03/12 Analyzed: 02/06/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	113		"	100		113	72.6-146			
<b>LCS (2020301-BS1)</b>				Prepared: 02/03/12 Analyzed: 02/06/12						
C6-C12 (GRO)	6070	50	ug/l	5500		110	75-125			
Surrogate 4-Bromofluorobenzene	88.0		"	100		88.0	72.6-146			
<b>Matrix Spike (2020301-MS1)</b>				<b>Source: T120159-01</b>		Prepared: 02/03/12 Analyzed: 02/06/12				
C6-C12 (GRO)	5590	50	ug/l	5500	166	98.7	65-135			
Surrogate 4-Bromofluorobenzene	95.0		"	100		95.0	72.6-146			
<b>Matrix Spike Dup (2020301-MSD1)</b>				<b>Source: T120159-01</b>		Prepared: 02/03/12 Analyzed: 02/06/12				
C6-C12 (GRO)	5340	50	ug/l	5500	166	94.0	65-135	4.69	20	
Surrogate 4-Bromofluorobenzene	89.2		"	100		89.2	72.6-146			

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020302 - EPA 5030 GCMS**

**Blank (2020302-BLK1)**

Prepared & Analyzed: 02/03/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020302 - EPA 5030 GCMS**

**Blank (2020302-BLK1)**

Prepared & Analyzed: 02/03/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	7.43		"
Surrogate Dibromofluoromethane	6.90		"
Surrogate Toluene-d8	7.52		"

8.00 92.9 83.5-119  
8.00 86.2 81-136  
8.00 94.0 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/06/12 16:50

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020302 - EPA 5030 GCMS

##### LCS (2020302-BS1)

Prepared & Analyzed: 02/03/12

Chlorobenzene	18.0	1.0	ug/l	20.0		90.2	75-125			
1,1-Dichloroethene	24.6	1.0	"	20.0		123	75-125			
Trichloroethene	22.2	1.0	"	20.0		111	75-125			
Benzene	21.9	0.50	"	20.0		110	75-125			
Toluene	19.8	0.50	"	20.0		99.2	75-125			
Surrogate 4-Bromofluorobenzene	7.54		"	8.00		94.2	83.5-119			
Surrogate Dibromofluoromethane	7.62		"	8.00		95.2	81-136			
Surrogate Toluene-d8	7.07		"	8.00		88.4	88.8-117			S-GC

##### Matrix Spike (2020302-MS1)

Source: T120159-01

Prepared & Analyzed: 02/03/12

Chlorobenzene	18.1	1.0	ug/l	20.0	ND	90.4	75-125			
1,1-Dichloroethene	100	1.0	"	20.0	70.7	147	75-125			QM-01
Trichloroethene	126	1.0	"	20.0	107	95.0	75-125			
Benzene	21.8	0.50	"	20.0	0.320	107	75-125			
Toluene	20.2	0.50	"	20.0	ND	101	75-125			
Surrogate 4-Bromofluorobenzene	7.71		"	8.00		96.4	83.5-119			
Surrogate Dibromofluoromethane	8.04		"	8.00		100	81-136			
Surrogate Toluene-d8	7.59		"	8.00		94.9	88.8-117			

##### Matrix Spike Dup (2020302-MSD1)

Source: T120159-01

Prepared & Analyzed: 02/03/12

Chlorobenzene	17.7	1.0	ug/l	20.0	ND	88.5	75-125	2.18	20	
1,1-Dichloroethene	94.7	1.0	"	20.0	70.7	120	75-125	5.54	20	
Trichloroethene	120	1.0	"	20.0	107	65.4	75-125	4.80	20	QM-01
Benzene	21.9	0.50	"	20.0	0.320	108	75-125	0.458	20	
Toluene	20.1	0.50	"	20.0	ND	101	75-125	0.644	20	
Surrogate 4-Bromofluorobenzene	7.52		"	8.00		94.0	83.5-119			
Surrogate Dibromofluoromethane	7.95		"	8.00		99.4	81-136			
Surrogate Toluene-d8	7.36		"	8.00		92.0	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/06/12 16:50
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### Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_



## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120159

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 2/1/12 1500

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

Total number of coolers received 0 Temp criteria =  $6^{\circ}\text{C} > 0^{\circ}\text{C}$  (no frozen containers)

Temperature: cooler #1 1.4  $^{\circ}\text{C}$  +/- the CF (-0.2 $^{\circ}\text{C}$ ) = 1.2  $^{\circ}\text{C}$  corrected temperature

cooler #2         $^{\circ}\text{C}$  +/- the CF (-0.2 $^{\circ}\text{C}$ ) =         $^{\circ}\text{C}$  corrected temperature

cooler #3         $^{\circ}\text{C}$  +/- the CF (-0.2 $^{\circ}\text{C}$ ) =         $^{\circ}\text{C}$  corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes, preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 2/2/12

Comments:




25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

08 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/03/12 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_15B_020212_01	T120192-01	Water	02/02/12 10:00	02/03/12 16:15
LL_15A_020212_01	T120192-02	Water	02/02/12 13:00	02/03/12 16:15
LL_16A_020212_01	T120192-03	Water	02/03/12 09:36	02/03/12 16:15
LL_16B_020212_01	T120192-04	Water	02/03/12 10:23	02/03/12 16:15
LL_16C_020212_01	T120192-05	Water	02/03/12 15:00	02/03/12 16:15
LL_106A_020212_01	T120192-06	Water	02/03/12 11:13	02/03/12 16:15
LL_TB_020312	T120192-07	Water	02/03/12 00:00	02/03/12 16:15

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_15B\_020212\_01**  
**T120192-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	280	50	ug/l	1	2020619	02/06/12	02/07/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		88.8 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_15B\_020212\_01**  
**T120192-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>2.3</b>	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>35</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>14</b>	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>4.4</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>31</b>	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>18</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>80</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_15B\_020212\_01**  
**T120192-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
<b>Methyl tert-butyl ether</b>	<b>100</b>	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		115 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		94.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		99.2 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_15A\_020212\_01**  
**T120192-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>62000</b>	250	ug/l	5	2020619	02/06/12	02/07/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		101 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>41</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>24</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>2.2</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_15A\_020212\_01**  
**T120192-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>150</b>	5.0	"	5	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>24</b>	1.0	"	1	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>4.6</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>300</b>	5.0	"	5	"	"	"	"
<b>Styrene</b>	<b>2.2</b>	1.0	"	1	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>880</b>	25	"	25	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>2900</b>	100	"	100	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>4400</b>	50	"	100	"	"	"	"
<b>Toluene</b>	<b>2400</b>	50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>2400</b>	50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>9900</b>	100	"	"	"	"	"	"
<b>o-Xylene</b>	<b>2300</b>	50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/08/12 16:41
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**LL\_15A\_020212\_01**  
**T120192-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>930</b>	25	"	25	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		91.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		104 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16A\_020212\_01**  
**T120192-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>230</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020619</b>	<b>02/06/12</b>	<b>02/07/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		90.2 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16A\_020212\_01**  
**T120192-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>5.8</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>16</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/08/12 16:41
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**LL\_16A\_020212\_01**  
**T120192-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>108 %</i>	<i>83.5-119</i>		"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>94.2 %</i>	<i>81-136</i>		"	"	"	"
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>88.8-117</i>		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16B\_020212\_01**  
**T120192-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>210</b>	50	ug/l	1	2020619	02/06/12	02/07/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		94.0 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>16</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>24</b>	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16B\_020212\_01**  
**T120192-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>30</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/08/12 16:41
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**LL\_16B\_020212\_01**  
**T120192-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>112 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>105 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>92.9 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16C\_020212\_01**  
**T120192-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>250</b>	50	ug/l	1	2020619	02/06/12	02/07/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		92.2 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
<b>Chlorobenzene</b>	<b>8.8</b>	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dichlorobenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>17</b>	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethene</b>	<b>2.8</b>	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>54</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>16</b>	1.0	"	"	"	"	"	"	
<b>1,2-Dichloropropane</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_16C\_020212\_01**  
**T120192-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>1.0</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>23</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/08/12 16:41
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**LL\_16C\_020212\_01**  
**T120192-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		104 %	81-136		"	"	"	"
Surrogate: Toluene-d8		94.0 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_106A\_020212\_01**  
**T120192-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>440</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020619</b>	<b>02/06/12</b>	<b>02/07/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	96.5 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.7</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_106A\_020212\_01**  
**T120192-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>4.6</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>11</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>2.7</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/08/12 16:41
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**LL\_106A\_020212\_01**  
**T120192-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020611	02/06/12	02/08/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		97.9 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		103 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_TB\_020312**  
**T120192-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**LL\_TB\_020312**  
**T120192-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/08/12 16:41
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**LL\_TB\_020312**  
**T120192-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020611	02/06/12	02/06/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	110 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	93.9 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	91.5 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020619 - EPA 5030 GC</b>										
<b>Blank (2020619-BLK1)</b>				Prepared: 02/06/12 Analyzed: 02/07/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	92.8		"	100		92.8	72.6-146			
<b>LCS (2020619-BS1)</b>				Prepared: 02/06/12 Analyzed: 02/07/12						
C6-C12 (GRO)	4790	50	ug/l	5500		87.1	75-125			
Surrogate 4-Bromofluorobenzene	92.3		"	100		92.3	72.6-146			
<b>Matrix Spike (2020619-MS1)</b>				<b>Source: T120187-01</b>		Prepared: 02/06/12 Analyzed: 02/07/12				
C6-C12 (GRO)	4820	50	ug/l	5500	ND	87.7	65-135			
Surrogate 4-Bromofluorobenzene	91.8		"	100		91.8	72.6-146			
<b>Matrix Spike Dup (2020619-MSD1)</b>				<b>Source: T120187-01</b>		Prepared: 02/06/12 Analyzed: 02/07/12				
C6-C12 (GRO)	4630	50	ug/l	5500	ND	84.3	65-135	4.01	20	
Surrogate 4-Bromofluorobenzene	93.1		"	100		93.1	72.6-146			

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020611 - EPA 5030 GCMS

##### Blank (2020611-BLK1)

Prepared: 02/06/12 Analyzed: 02/07/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020611 - EPA 5030 GCMS

##### Blank (2020611-BLK1)

Prepared: 02/06/12 Analyzed: 02/07/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	8.56		"	8.00		107	83.5-119			
Surrogate Dibromofluoromethane	7.18		"	8.00		89.8	81-136			
Surrogate Toluene-d8	7.98		"	8.00		99.8	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/08/12 16:41

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020611 - EPA 5030 GCMS

##### LCS (2020611-BS1)

Prepared: 02/06/12 Analyzed: 02/07/12

Chlorobenzene	22.6	1.0	ug/l	20.0		113	75-125			
1,1-Dichloroethene	24.1	1.0	"	20.0		121	75-125			
Trichloroethene	22.8	1.0	"	20.0		114	75-125			
Benzene	23.6	0.50	"	20.0		118	75-125			
Toluene	21.4	0.50	"	20.0		107	75-125			
Surrogate 4-Bromofluorobenzene	8.14		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	8.69		"	8.00		109	81-136			
Surrogate Toluene-d8	7.13		"	8.00		89.1	88.8-117			

##### Matrix Spike (2020611-MS1)

Source: T120193-01

Prepared: 02/06/12 Analyzed: 02/07/12

Chlorobenzene	22.2	1.0	ug/l	20.0	ND	111	75-125			
1,1-Dichloroethene	22.8	1.0	"	20.0	ND	114	75-125			
Trichloroethene	20.6	1.0	"	20.0	64.7	NR	75-125			QM-01
Benzene	42.5	0.50	"	20.0	ND	212	75-125			QM-01
Toluene	28.9	0.50	"	20.0	ND	144	75-125			QM-01
Surrogate 4-Bromofluorobenzene	8.69		"	8.00		109	83.5-119			
Surrogate Dibromofluoromethane	8.75		"	8.00		109	81-136			
Surrogate Toluene-d8	7.05		"	8.00		88.1	88.8-117			S-GC

##### Matrix Spike Dup (2020611-MSD1)

Source: T120193-01

Prepared: 02/06/12 Analyzed: 02/07/12

Chlorobenzene	21.0	1.0	ug/l	20.0	ND	105	75-125	5.74	20	
1,1-Dichloroethene	21.7	1.0	"	20.0	ND	109	75-125	4.67	20	
Trichloroethene	19.6	1.0	"	20.0	64.7	NR	75-125	5.13	20	QM-01
Benzene	37.5	0.50	"	20.0	ND	188	75-125	12.4	20	QM-01
Toluene	25.7	0.50	"	20.0	ND	129	75-125	11.6	20	QM-01
Surrogate 4-Bromofluorobenzene	8.48		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	8.55		"	8.00		107	81-136			
Surrogate Toluene-d8	7.54		"	8.00		94.2	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/08/12 16:41
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### Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

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## Chain of Custody Record

Date: 2-3-2012 Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

~~Client Project #: 1003-001-300~~

Batch #: T120192

EDF #:

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_



## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120192

Client Name: MUREX ENV.

Project: CENCO

Received by: DAN

Date/Time Received: 2-3-12 / 1615

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

Total number of coolers received 0

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.6 °C +/- the CF (- 0.2°C) = 4.4 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 2-3-12

Comments:




25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

09 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/06/12 16:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W4_020612_01	T120203-01	Water	02/06/12 13:45	02/06/12 16:28
LL_W1_020612_01	T120203-02	Water	02/06/12 15:00	02/06/12 16:28
LL_TB_020612_01	T120203-03	Water	02/06/12 00:00	02/06/12 16:28

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_W4\_020612\_01**

**T120203-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	1100	50	ug/l	1	2020724	02/07/12	02/08/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		92.1 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_W4\_020612\_01**  
**T120203-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>18</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>8.5</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>6.2</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>410</b>	5.0	"	10	"	"	"	"
Toluene	ND	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>0.79</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/09/12 16:13
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**LL\_W4\_020612\_01**  
**T120203-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>100 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>105 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_W1\_020612\_01**  
**T120203-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>160</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020724</b>	<b>02/07/12</b>	<b>02/08/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene	89.3 %	72.6-146	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>3.7</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_W1\_020612\_01**  
**T120203-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>2.4</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>18</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/09/12 16:13
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**LL\_W1\_020612\_01**  
**T120203-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_TB\_020612\_01**  
**T120203-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**LL\_TB\_020612\_01**  
**T120203-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/09/12 16:13
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**LL\_TB\_020612\_01**  
**T120203-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020716	02/07/12	02/07/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	98.8 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	100 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/09/12 16:13
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020724 - EPA 5030 GC</b>										
<b>Blank (2020724-BLK1)</b>				Prepared: 02/07/12 Analyzed: 02/08/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	92.5		"	100		92.5	72.6-146			
<b>LCS (2020724-BS1)</b>				Prepared: 02/07/12 Analyzed: 02/08/12						
C6-C12 (GRO)	4530	50	ug/l	5500		82.4	75-125			
Surrogate 4-Bromofluorobenzene	91.1		"	100		91.1	72.6-146			
<b>Matrix Spike (2020724-MS1)</b>				<b>Source: T120203-01</b>		Prepared: 02/07/12 Analyzed: 02/08/12				
C6-C12 (GRO)	5690	50	ug/l	5500	1150	82.6	65-135			
Surrogate 4-Bromofluorobenzene	95.8		"	100		95.8	72.6-146			
<b>Matrix Spike Dup (2020724-MSD1)</b>				<b>Source: T120203-01</b>		Prepared: 02/07/12 Analyzed: 02/08/12				
C6-C12 (GRO)	5480	50	ug/l	5500	1150	78.7	65-135	3.81	20	
Surrogate 4-Bromofluorobenzene	86.7		"	100		86.7	72.6-146			

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020716 - EPA 5030 GCMS**

**Blank (2020716-BLK1)**

Prepared & Analyzed: 02/07/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020716 - EPA 5030 GCMS**

**Blank (2020716-BLK1)**

Prepared & Analyzed: 02/07/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	8.01		"	8.00		100	83.5-119			
Surrogate Dibromofluoromethane	8.03		"	8.00		100	81-136			
Surrogate Toluene-d8	7.85		"	8.00		98.1	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/09/12 16:13

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020716 - EPA 5030 GCMS

##### LCS (2020716-BS1)

Prepared & Analyzed: 02/07/12

Chlorobenzene	19.0	1.0	ug/l	20.0		94.9	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0		112	75-125			
Trichloroethene	20.2	1.0	"	20.0		101	75-125			
Benzene	21.8	0.50	"	20.0		109	75-125			
Toluene	19.4	0.50	"	20.0		97.0	75-125			
Surrogate 4-Bromofluorobenzene	7.75		"	8.00		96.9	83.5-119			
Surrogate Dibromofluoromethane	8.41		"	8.00		105	81-136			
Surrogate Toluene-d8	7.94		"	8.00		99.2	88.8-117			

##### Matrix Spike (2020716-MS1)

Source: T120203-01

Prepared: 02/07/12 Analyzed: 02/08/12

Chlorobenzene	20.7	1.0	ug/l	20.0	ND	103	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0	ND	111	75-125			
Trichloroethene	21.6	1.0	"	20.0	ND	108	75-125			
Benzene	346	0.50	"	20.0	407	NR	75-125			QM-02
Toluene	21.5	0.50	"	20.0	0.390	106	75-125			
Surrogate 4-Bromofluorobenzene	8.18		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	8.31		"	8.00		104	81-136			
Surrogate Toluene-d8	8.20		"	8.00		102	88.8-117			

##### Matrix Spike Dup (2020716-MSD1)

Source: T120203-01

Prepared: 02/07/12 Analyzed: 02/08/12

Chlorobenzene	19.4	1.0	ug/l	20.0	ND	96.8	75-125	6.55	20	
1,1-Dichloroethene	21.8	1.0	"	20.0	ND	109	75-125	2.13	20	
Trichloroethene	20.9	1.0	"	20.0	ND	104	75-125	3.25	20	
Benzene	355	0.50	"	20.0	407	NR	75-125	2.34	20	QM-02
Toluene	20.8	0.50	"	20.0	0.390	102	75-125	3.16	20	
Surrogate 4-Bromofluorobenzene	8.09		"	8.00		101	83.5-119			
Surrogate Dibromofluoromethane	8.24		"	8.00		103	81-136			
Surrogate Toluene-d8	8.10		"	8.00		101	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/09/12 16:13
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### Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

## Chain of Custody Record

Date: 2-6-2012 Page: 1 OF 1  
Project Name: CENCO  
Collector: Frane Sosic Client Project #: 1003-001-300  
Batch #: T120203 EDF #:

[illegible]

Sample disposal Instructions:	Disposal @ \$2.00 each	Return to client	Pickup
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## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120203

Client Name: Murex

Project: Cendo

Received by: Jan

Date/Time Received: 2/6/12 1628

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other \_\_\_\_\_

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.8 °C +/- the CF (- 0.2°C) = 2.6 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*


Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date  2/7/12

Comments:

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25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

10 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/07/12 15:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao  
Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_17A_020712_01	T120208-01	Water	02/07/12 10:48	02/07/12 15:37
LL_17B_020712_01	T120208-02	Water	02/07/12 12:34	02/07/12 15:37
LL_17C_020712_01	T120208-03	Water	02/07/12 15:10	02/07/12 15:37
LL_W8_020712_01	T120208-04	Water	02/07/12 13:50	02/07/12 15:37
LL_TB_020712	T120208-05	Water	02/07/12 00:00	02/07/12 15:37

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17A\_020712\_01**

**T120208-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	2020810	02/08/12	02/08/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		87.5 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.5	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17A\_020712\_01**  
**T120208-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17A\_020712\_01**  
**T120208-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Tert-butyl alcohol</b>	<b>17</b>	10	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		95.5 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		103 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17B\_020712\_01**  
**T120208-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	2020810	02/08/12	02/08/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		84.7 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17B\_020712\_01**  
**T120208-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/10/12 15:51
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**LL\_17B\_020712\_01**  
**T120208-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Tert-butyl alcohol</b>	<b>14</b>	10	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		104 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17C\_020712\_01**  
**T120208-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	2020810	02/08/12	02/08/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		86.4 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_17C\_020712\_01**  
**T120208-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/10/12 15:51
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**LL\_17C\_020712\_01**  
**T120208-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Tert-butyl alcohol</b>	<b>10</b>	10	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		104 %	81-136		"	"	"	"
Surrogate: Toluene-d8		99.4 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_W8\_020712\_01**  
**T120208-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	90	50	ug/l	1	2020810	02/08/12	02/08/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		89.8 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_W8\_020712\_01**  
**T120208-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>0.73</b>	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/10/12 15:51
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**LL\_W8\_020712\_01**  
**T120208-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		102 %	81-136		"	"	"	"
Surrogate: Toluene-d8		103 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_TB\_020712**  
**T120208-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**LL\_TB\_020712**  
**T120208-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/10/12 15:51
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**LL\_TB\_020712  
T120208-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020809	02/08/12	02/08/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	109 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	100 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	102 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020810 - EPA 5030 GC</b>										
<b>Blank (2020810-BLK1)</b>				Prepared & Analyzed: 02/08/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	86.1		"	100		86.1	72.6-146			
<b>LCS (2020810-BS1)</b>				Prepared & Analyzed: 02/08/12						
C6-C12 (GRO)	5180	50	ug/l	5500		94.2	75-125			
Surrogate 4-Bromofluorobenzene	90.3		"	100		90.3	72.6-146			
<b>Matrix Spike (2020810-MS1)</b>				<b>Source: T120208-01</b>		Prepared & Analyzed: 02/08/12				
C6-C12 (GRO)	5180	50	ug/l	5500	30.0	93.7	65-135			
Surrogate 4-Bromofluorobenzene	92.7		"	100		92.7	72.6-146			
<b>Matrix Spike Dup (2020810-MSD1)</b>				<b>Source: T120208-01</b>		Prepared & Analyzed: 02/08/12				
C6-C12 (GRO)	4930	50	ug/l	5500	30.0	89.2	65-135	4.96	20	
Surrogate 4-Bromofluorobenzene	90.8		"	100		90.8	72.6-146			

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020809 - EPA 5030 GCMS**

**Blank (2020809-BLK1)**

Prepared & Analyzed: 02/08/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020809 - EPA 5030 GCMS

##### Blank (2020809-BLK1)

Prepared & Analyzed: 02/08/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	8.59		"
Surrogate Dibromofluoromethane	7.43		"
Surrogate Toluene-d8	7.98		"

8.00 107 83.5-119  
8.00 92.9 81-136  
8.00 99.8 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/10/12 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020809 - EPA 5030 GCMS

##### LCS (2020809-BS1)

Prepared: 02/08/12 Analyzed: 02/10/12

Chlorobenzene	21.1	1.0	ug/l	20.0		105	75-125			
1,1-Dichloroethene	19.0	1.0	"	20.0		95.0	75-125			
Trichloroethene	20.3	1.0	"	20.0		101	75-125			
Benzene	19.6	0.50	"	20.0		97.8	75-125			
Toluene	21.2	0.50	"	20.0		106	75-125			
Surrogate 4-Bromofluorobenzene	8.78		"	8.00		110	83.5-119			
Surrogate Dibromofluoromethane	7.45		"	8.00		93.1	81-136			
Surrogate Toluene-d8	8.28		"	8.00		104	88.8-117			

##### Matrix Spike (2020809-MS1)

Source: T120208-01

Prepared: 02/08/12 Analyzed: 02/10/12

Chlorobenzene	21.2	1.0	ug/l	20.0	ND	106	75-125			
1,1-Dichloroethene	19.4	1.0	"	20.0	ND	96.8	75-125			
Trichloroethene	19.7	1.0	"	20.0	ND	98.3	75-125			
Benzene	19.7	0.50	"	20.0	ND	98.7	75-125			
Toluene	21.0	0.50	"	20.0	ND	105	75-125			
Surrogate 4-Bromofluorobenzene	8.39		"	8.00		105	83.5-119			
Surrogate Dibromofluoromethane	7.28		"	8.00		91.0	81-136			
Surrogate Toluene-d8	8.00		"	8.00		100	88.8-117			

##### Matrix Spike Dup (2020809-MSD1)

Source: T120208-01

Prepared: 02/08/12 Analyzed: 02/10/12

Chlorobenzene	21.2	1.0	ug/l	20.0	ND	106	75-125	0.236	20	
1,1-Dichloroethene	19.3	1.0	"	20.0	ND	96.4	75-125	0.311	20	
Trichloroethene	20.7	1.0	"	20.0	ND	104	75-125	5.15	20	
Benzene	20.5	0.50	"	20.0	ND	102	75-125	3.78	20	
Toluene	20.8	0.50	"	20.0	ND	104	75-125	0.717	20	
Surrogate 4-Bromofluorobenzene	8.22		"	8.00		103	83.5-119			
Surrogate Dibromofluoromethane	7.80		"	8.00		97.5	81-136			
Surrogate Toluene-d8	8.13		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/10/12 15:51
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### Notes and Definitions

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

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SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

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## Chain of Custody Record

Date: 2-7-2012 Page: 1 OF 1

Project Name: CENCO

Client Project #: 1003-001-300

EDF #: \_\_\_\_\_

[illegible]

**Sample disposal Instructions:**    Disposal @ \$2.00 each                  Return to client                  Pickup \_\_\_\_\_

## SAMPLE RECEIVING REVIEW SHEET

BATCH # \_\_\_\_\_

Client Name: MUREX ENV.

Project: CENCO

Received by: SUNNY

Date/Time Received: 2-7-12 / 15:37

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other \_\_\_\_\_

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 8.4 °C +/- the CF (- 0.2°C) = 8.2 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 2-7-12

Comments:

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25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

13 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/08/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W7_020812_01	T120212-01	Water	02/08/12 09:00	02/08/12 16:30
LL_W9_020812_01	T120212-02	Water	02/08/12 15:46	02/08/12 16:30
LL_W10_020812_01	T120212-03	Water	02/08/12 08:00	02/08/12 16:30
LL_W11_020812_01	T120212-04	Water	02/08/12 12:07	02/08/12 16:30
LL_W12_020812_01	T120212-05	Water	02/08/12 15:16	02/08/12 16:30
LL_TB_020812	T120212-06	Water	02/08/12 00:00	02/08/12 16:30

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W7\_020812\_01**

**T120212-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	2020903	02/09/12	02/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		84.9 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
<b>1,1-Dichloroethane</b>	<b>1.6</b>	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W7\_020812\_01**  
**T120212-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>0.57</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>0.59</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/13/12 15:43
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**LL\_W7\_020812\_01**  
**T120212-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		112 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		97.4 %	81-136		"	"	"	"
Surrogate: Toluene-d8		99.9 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W9\_020812\_01**  
**T120212-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>59</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020903</b>	<b>02/09/12</b>	<b>02/09/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene	84.8 %	72.6-146	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>1.8</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W9\_020812\_01**  
**T120212-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>13</b>	<b>10</b>	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/13/12 15:43
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**LL\_W9\_020812\_01**  
**T120212-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		100 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W10\_020812\_01**  
**T120212-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>10000</b>	50	ug/l	1	2020903	02/09/12	02/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		91.7 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>4.1</b>	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dichloroethane</b>	<b>5.6</b>	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W10\_020812\_01**  
**T120212-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>24</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>130</b>	5.0	"	5	"	"	"	"
<b>n-Propylbenzene</b>	<b>28</b>	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>12</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>73</b>	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>3100</b>	25	"	50	"	"	"	"
<b>Toluene</b>	<b>5.5</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>230</b>	2.5	"	5	"	"	"	"
<b>m,p-Xylene</b>	<b>150</b>	1.0	"	1	"	"	"	"
<b>o-Xylene</b>	<b>2.9</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/13/12 15:43
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**LL\_W10\_020812\_01**  
**T120212-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		109 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		96.0 %	81-136		"	"	"	"
Surrogate: Toluene-d8		111 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W11\_020812\_01**  
**T120212-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>2900</b>	50	ug/l	1	2020903	02/09/12	02/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		97.9 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dichloroethane</b>	<b>0.90</b>	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W11\_020812\_01**  
**T120212-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020902	02/09/12	02/13/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>1.9</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>2.7</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>39</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>24</b>	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>12</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>6.2</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>50</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>0.80</b>	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/13/12 15:43
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**LL\_W11\_020812\_01**  
**T120212-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2020902	02/09/12	02/13/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		100 %	81-136		"	"	"	"
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W12\_020812\_01**  
**T120212-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>400</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2020903</b>	<b>02/09/12</b>	<b>02/09/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	92.2 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>4.9</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.9</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>2.3</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_W12\_020812\_01**  
**T120212-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>4.6</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>9.3</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>2.2</b>	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>2.2</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/13/12 15:43
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**LL\_W12\_020812\_01**  
**T120212-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		98.1 %	81-136		"	"	"	"
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_TB\_020812**  
**T120212-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**LL\_TB\_020812**  
**T120212-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/13/12 15:43
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**LL\_TB\_020812**  
**T120212-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2020902	02/09/12	02/09/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	110 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	99.2 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	100 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020903 - EPA 5030 GC</b>										
<b>Blank (2020903-BLK1)</b>				Prepared & Analyzed: 02/09/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	81.5		"	100		81.5	72.6-146			
<b>LCS (2020903-BS1)</b>				Prepared & Analyzed: 02/09/12						
C6-C12 (GRO)	4980	50	ug/l	5500		90.5	75-125			
Surrogate 4-Bromofluorobenzene	92.1		"	100		92.1	72.6-146			
<b>Matrix Spike (2020903-MS1)</b>				<b>Source: T120212-01</b>		Prepared & Analyzed: 02/09/12				
C6-C12 (GRO)	4910	50	ug/l	5500	32.0	88.7	65-135			
Surrogate 4-Bromofluorobenzene	92.4		"	100		92.4	72.6-146			
<b>Matrix Spike Dup (2020903-MSD1)</b>				<b>Source: T120212-01</b>		Prepared & Analyzed: 02/09/12				
C6-C12 (GRO)	4760	50	ug/l	5500	32.0	85.9	65-135	3.19	20	
Surrogate 4-Bromofluorobenzene	91.3		"	100		91.3	72.6-146			

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2020902 - EPA 5030 GCMS**

**Blank (2020902-BLK1)**

Prepared & Analyzed: 02/09/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020902 - EPA 5030 GCMS

##### Blank (2020902-BLK1)

Prepared & Analyzed: 02/09/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	8.94		"	8.00		112	83.5-119			
Surrogate Dibromofluoromethane	7.91		"	8.00		98.9	81-136			
Surrogate Toluene-d8	8.04		"	8.00		100	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/13/12 15:43

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2020902 - EPA 5030 GCMS

##### LCS (2020902-BS1)

Prepared & Analyzed: 02/09/12

Chlorobenzene	21.9	1.0	ug/l	20.0		110	75-125			
1,1-Dichloroethene	21.4	1.0	"	20.0		107	75-125			
Trichloroethene	20.6	1.0	"	20.0		103	75-125			
Benzene	21.6	0.50	"	20.0		108	75-125			
Toluene	20.3	0.50	"	20.0		102	75-125			
Surrogate 4-Bromofluorobenzene	8.03		"	8.00		100	83.5-119			
Surrogate Dibromofluoromethane	8.02		"	8.00		100	81-136			
Surrogate Toluene-d8	7.88		"	8.00		98.5	88.8-117			

##### Matrix Spike (2020902-MS1)

Source: T120212-01

Prepared & Analyzed: 02/09/12

Chlorobenzene	22.0	1.0	ug/l	20.0	ND	110	75-125			
1,1-Dichloroethene	20.8	1.0	"	20.0	ND	104	75-125			
Trichloroethene	20.5	1.0	"	20.0	ND	102	75-125			
Benzene	21.6	0.50	"	20.0	0.470	106	75-125			
Toluene	20.8	0.50	"	20.0	ND	104	75-125			
Surrogate 4-Bromofluorobenzene	8.06		"	8.00		101	83.5-119			
Surrogate Dibromofluoromethane	7.71		"	8.00		96.4	81-136			
Surrogate Toluene-d8	7.96		"	8.00		99.5	88.8-117			

##### Matrix Spike Dup (2020902-MSD1)

Source: T120212-01

Prepared & Analyzed: 02/09/12

Chlorobenzene	22.1	1.0	ug/l	20.0	ND	110	75-125	0.454	20	
1,1-Dichloroethene	20.7	1.0	"	20.0	ND	104	75-125	0.481	20	
Trichloroethene	20.6	1.0	"	20.0	ND	103	75-125	0.390	20	
Benzene	21.8	0.50	"	20.0	0.470	107	75-125	1.01	20	
Toluene	21.0	0.50	"	20.0	ND	105	75-125	0.909	20	
Surrogate 4-Bromofluorobenzene	8.14		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.87		"	8.00		98.4	81-136			
Surrogate Toluene-d8	8.14		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/13/12 15:43
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### Notes and Definitions

S-GC      Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

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SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

## Chain of Custody Record

Date: 2-8-2012 Page: 1 OF 1

Project Name: CENCO

Client Project #: 1003-001-300

EDF #: \_\_\_\_\_

[illegible]

## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120212

Client Name: MUREX ENV.

Project: CENCO

Received by: SUNNY

Date/Time Received: 2-8-12 / 16:30

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

Total number of coolers received 0

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 7.8 °C +/- the CF (- 0.2°C) = 7.6 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (- 0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 2-8-12

Comments:

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25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

15 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/10/12 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/15/12 14:19
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### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_702_020912_01	T120233-01	Water	02/09/12 13:00	02/10/12 15:45
LL_702_020912_02	T120233-02	Water	02/09/12 13:13	02/10/12 15:45
LL_104A_020912_01	T120233-03	Water	02/09/12 15:36	02/10/12 15:45
LL_708_020912_01	T120233-04	Water	02/10/12 10:30	02/10/12 15:45
LL_709_020912_01	T120233-05	Water	02/10/12 12:00	02/10/12 15:45
LL_711_020912_01	T120233-06	Water	02/10/12 15:00	02/10/12 15:45
LL_TB_020912	T120233-07	Water	02/10/12 00:00	02/10/12 15:45

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_01**

**T120233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>1400</b>	50	ug/l	1	2021329	02/13/12	02/14/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		98.3 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>2.2</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>4.8</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
<b>1,2-Dibromo-3-chloropropane</b>	<b>5.0</b>	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_01**  
**T120233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>1,2-Dichloropropane</b>	<b>12</b>	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>11</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>3.4</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>7.1</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
<b>1,1,2,2-Tetrachloroethane</b>	<b>1.7</b>	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>480</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>1.3</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>0.65</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_01**  
**T120233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		93.1 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_02**  
**T120233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>1500</b>	50	ug/l	1	2021329	02/13/12	02/14/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		98.3 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>2.4</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>5.1</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dibromo-3-chloropropane</b>	<b>5.4</b>	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>1,2-Dichloropropane</b>	<b>12</b>	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_02**  
**T120233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>13</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>3.3</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>7.7</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
<b>1,1,2,2-Tetrachloroethane</b>	<b>1.4</b>	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>470</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>1.3</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>0.71</b>	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_702\_020912\_02**  
**T120233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		127 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		98.2 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_104A\_020912\_01**  
**T120233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	2021329	02/13/12	02/14/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		90.8 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_104A\_020912\_01**  
**T120233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/15/12 14:19
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**LL\_104A\_020912\_01**  
**T120233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		109 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		92.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		97.4 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_708\_020912\_01**  
**T120233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>18000</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021329</b>	<b>02/13/12</b>	<b>02/14/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	108 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>25</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>22</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>2.4</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_708\_020912\_01**  
**T120233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>100</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>22</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>170</b>	10	"	10	"	"	"	"
<b>n-Propylbenzene</b>	<b>180</b>	10	"	"	"	"	"	"
Styrene	ND	1.0	"	1	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>410</b>	10	"	10	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>1100</b>	10	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>1700</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>74</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>770</b>	5.0	"	10	"	"	"	"
<b>m,p-Xylene</b>	<b>1000</b>	10	"	"	"	"	"	"
<b>o-Xylene</b>	<b>38</b>	0.50	"	1	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/15/12 14:19
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**LL\_708\_020912\_01**  
**T120233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>830</b>	10	"	10	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		95.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		98.5 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_709\_020912\_01**  
**T120233-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>760</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021329</b>	<b>02/13/12</b>	<b>02/14/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene		98.5 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>6.2</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_709\_020912\_01**  
**T120233-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>33</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>28</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>180</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_709\_020912\_01**  
**T120233-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>4.4</b>	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_711\_020912\_01**  
**T120233-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>23000</b>	50	ug/l	1	2021329	02/13/12	02/14/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		97.5 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>46</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>20</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>2.7</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_711\_020912\_01**  
**T120233-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>130</b>	10	"	10	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>3.2</b>	1.0	"	1	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>360</b>	10	"	10	"	"	"	"
<b>n-Propylbenzene</b>	<b>210</b>	10	"	"	"	"	"	"
Styrene	ND	1.0	"	1	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>150</b>	10	"	10	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>480</b>	10	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>1900</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>2100</b>	12	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>440</b>	5.0	"	10	"	"	"	"
<b>m,p-Xylene</b>	<b>1800</b>	10	"	"	"	"	"	"
<b>o-Xylene</b>	<b>770</b>	5.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_711\_020912\_01**  
**T120233-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021323	02/13/12	02/13/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>14</b>	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		96.2 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		91.2 %	81-136		"	"	"	"
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_TB\_020912**  
**T120233-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021323	02/13/12	02/14/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

**LL\_TB\_020912**  
**T120233-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2021323	02/13/12	02/14/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/15/12 14:19
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**LL\_TB\_020912**  
**T120233-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2021323	02/13/12	02/14/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	111 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	90.5 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	101 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/15/12 14:19
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### Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021329 - EPA 5030 GC

##### Blank (2021329-BLK1)

Prepared: 02/13/12 Analyzed: 02/14/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	85.7		"	100		85.7	72.6-146			

##### LCS (2021329-BS1)

Prepared: 02/13/12 Analyzed: 02/14/12

C6-C12 (GRO)	4860	50	ug/l	5500		88.3	75-125			
Surrogate 4-Bromofluorobenzene	95.1		"	100		95.1	72.6-146			

##### Matrix Spike (2021329-MS1)

Source: T120232-01

Prepared: 02/13/12 Analyzed: 02/14/12

C6-C12 (GRO)	5450	50	ug/l	5500	2830	47.5	65-135			QM-07
Surrogate 4-Bromofluorobenzene	97.6		"	100		97.6	72.6-146			

##### Matrix Spike Dup (2021329-MSD1)

Source: T120232-01

Prepared: 02/13/12 Analyzed: 02/14/12

C6-C12 (GRO)	5410	50	ug/l	5500	2830	46.8	65-135	0.698	20	QM-07
Surrogate 4-Bromofluorobenzene	97.9		"	100		97.9	72.6-146			

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021323 - EPA 5030 GCMS

#### Blank (2021323-BLK1)

Prepared & Analyzed: 02/13/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021323 - EPA 5030 GCMS

##### Blank (2021323-BLK1)

Prepared & Analyzed: 02/13/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	8.81		"
Surrogate Dibromofluoromethane	7.23		"
Surrogate Toluene-d8	7.99		"

8.00 110 83.5-119  
8.00 90.4 81-136  
8.00 99.9 88.8-117

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/15/12 14:19

## Volatil Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021323 - EPA 5030 GCMS

##### LCS (2021323-BS1)

Prepared: 02/13/12 Analyzed: 02/14/12

Chlorobenzene	24.7	1.0	ug/l	20.0		123	75-125			
1,1-Dichloroethene	19.9	1.0	"	20.0		99.6	75-125			
Trichloroethene	20.6	1.0	"	20.0		103	75-125			
Benzene	20.9	0.50	"	20.0		104	75-125			
Toluene	20.1	0.50	"	20.0		101	75-125			
Surrogate 4-Bromofluorobenzene	7.94		"	8.00		99.2	83.5-119			
Surrogate Dibromofluoromethane	8.46		"	8.00		106	81-136			
Surrogate Toluene-d8	7.24		"	8.00		90.5	88.8-117			

##### Matrix Spike (2021323-MS1)

Source: T120232-01

Prepared: 02/13/12 Analyzed: 02/14/12

Chlorobenzene	24.8	1.0	ug/l	20.0	ND	124	75-125			
1,1-Dichloroethene	19.1	1.0	"	20.0	ND	95.6	75-125			
Trichloroethene	22.0	1.0	"	20.0	ND	110	75-125			
Benzene	21.6	0.50	"	20.0	0.550	105	75-125			
Toluene	23.1	0.50	"	20.0	1.84	106	75-125			
Surrogate 4-Bromofluorobenzene	8.88		"	8.00		111	83.5-119			
Surrogate Dibromofluoromethane	7.94		"	8.00		99.2	81-136			
Surrogate Toluene-d8	7.26		"	8.00		90.8	88.8-117			

##### Matrix Spike Dup (2021323-MSD1)

Source: T120232-01

Prepared: 02/13/12 Analyzed: 02/14/12

Chlorobenzene	23.0	1.0	ug/l	20.0	ND	115	75-125	7.69	20	
1,1-Dichloroethene	18.4	1.0	"	20.0	ND	91.9	75-125	3.95	20	
Trichloroethene	20.4	1.0	"	20.0	ND	102	75-125	7.22	20	
Benzene	20.0	0.50	"	20.0	0.550	97.0	75-125	7.99	20	
Toluene	22.0	0.50	"	20.0	1.84	101	75-125	4.88	20	
Surrogate 4-Bromofluorobenzene	8.30		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	8.12		"	8.00		102	81-136			
Surrogate Toluene-d8	7.45		"	8.00		93.1	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/15/12 14:19
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### Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

## Chain of Custody Record

Date: 2.10.2012 Page: 1 OF 1

Project Name: CENCO

Client Project #: 1003-001-300

EDF #:

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

16 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/13/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez  
Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_712_021312_01	T120241-01	Water	02/13/12 10:35	02/13/12 16:30
LL_713_021312_01	T120241-02	Water	02/13/12 12:23	02/13/12 16:30
LL_714_021312_01	T120241-03	Water	02/13/12 15:40	02/13/12 16:30
LL_714_021312_02	T120241-04	Water	02/13/12 15:46	02/13/12 16:30
LL_TB_021312	T120241-05	Water	02/13/12 00:00	02/13/12 16:30

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_712\_021312\_01**  
**T120241-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>8300</b>	50	ug/l	1	2021415	02/14/12	02/15/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		109 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>16</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>15</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>2.4</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
<b>Chloromethane</b>	<b>4.9</b>	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>3.4</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_712\_021312\_01**  
**T120241-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>76</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>3.9</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>24</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>79</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>44</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>86</b>	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>1.7</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>850</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>57</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>62</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>180</b>	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>46</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>94</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_712\_021312\_01**  
**T120241-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>21</b>	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		97.0 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		105 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_713\_021312\_01**  
**T120241-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>5500</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021415</b>	<b>02/14/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		102 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>4.7</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>6.4</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>3.1</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_713\_021312\_01**  
**T120241-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>46</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>65</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>1900</b>	12	"	25	"	"	"	"
<b>Toluene</b>	<b>2.2</b>	0.50	"	1	"	"	"	"
<b>Ethylbenzene</b>	<b>4.6</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>9.8</b>	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>2.5</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>160</b>	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/16/12 16:58
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**LL\_713\_021312\_01**  
**T120241-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>390</b>	5.0	"	5	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		95.6 %	81-136		"	"	"	"
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_714\_021312\_01**  
**T120241-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>760</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021415</b>	<b>02/14/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		104 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>3.4</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
<b>Chloromethane</b>	<b>3.2</b>	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_714\_021312\_01**  
**T120241-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>14</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>6.5</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>3.9</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>23</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/16/12 16:58
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**LL\_714\_021312\_01**  
**T120241-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021414	02/14/12	02/15/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>7.1</b>	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		93.0 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_714\_021312\_02**  
**T120241-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>730</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021415</b>	<b>02/14/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		107 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
<b>Chloromethane</b>	<b>3.8</b>	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_714\_021312\_02**  
**T120241-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>15</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>7.3</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>5.0</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>0.72</b>	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>29</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_714\_021312\_02**  
**T120241-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>8.4</b>	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		103 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_TB\_021312**  
**T120241-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**LL\_TB\_021312**  
**T120241-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/16/12 16:58
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**LL\_TB\_021312**  
**T120241-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2021414	02/14/12	02/14/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	110 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	99.5 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	103 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/16/12 16:58
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2021415 - EPA 5030 GC</b>										
<b>Blank (2021415-BLK1)</b>				Prepared: 02/14/12 Analyzed: 02/15/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	94.8		"	100		94.8	72.6-146			
<b>LCS (2021415-BS1)</b>				Prepared: 02/14/12 Analyzed: 02/15/12						
C6-C12 (GRO)	4930	50	ug/l	5500		89.7	75-125			
Surrogate 4-Bromofluorobenzene	104		"	100		104	72.6-146			
<b>Matrix Spike (2021415-MS1)</b>				<b>Source: T120241-01</b>		Prepared: 02/14/12 Analyzed: 02/15/12				
C6-C12 (GRO)	11300	50	ug/l	5500	8250	54.6	65-135			QM-01
Surrogate 4-Bromofluorobenzene	99.0		"	100		99.0	72.6-146			
<b>Matrix Spike Dup (2021415-MSD1)</b>				<b>Source: T120241-01</b>		Prepared: 02/14/12 Analyzed: 02/15/12				
C6-C12 (GRO)	12100	50	ug/l	5500	8250	69.6	65-135	7.04	20	
Surrogate 4-Bromofluorobenzene	109		"	100		109	72.6-146			

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

Reported:  
02/16/12 16:58

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021414 - EPA 5030 GCMS

##### Blank (2021414-BLK1)

Prepared & Analyzed: 02/14/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Wendy Hsiao*

Wendy Hsiao For Daniel Chavez, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2021414 - EPA 5030 GCMS**

**Blank (2021414-BLK1)**

Prepared & Analyzed: 02/14/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	8.80		"
Surrogate Dibromofluoromethane	7.66		"
Surrogate Toluene-d8	8.09		"

110 83.5-119  
95.8 81-136  
101 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/16/12 16:58

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021414 - EPA 5030 GCMS

##### LCS (2021414-BS1)

Prepared & Analyzed: 02/14/12

Chlorobenzene	21.4	1.0	ug/l	20.0		107	75-125			
1,1-Dichloroethene	18.0	1.0	"	20.0		89.8	75-125			
Trichloroethene	20.5	1.0	"	20.0		102	75-125			
Benzene	19.8	0.50	"	20.0		99.0	75-125			
Toluene	21.0	0.50	"	20.0		105	75-125			
Surrogate 4-Bromofluorobenzene	8.16		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.98		"	8.00		99.8	81-136			
Surrogate Toluene-d8	8.14		"	8.00		102	88.8-117			

##### Matrix Spike (2021414-MS1)

Source: T120241-01

Prepared & Analyzed: 02/14/12

Chlorobenzene	22.2	1.0	ug/l	20.0	ND	111	75-125			
1,1-Dichloroethene	12.1	1.0	"	20.0	ND	60.3	75-125			QM-05
Trichloroethene	19.6	1.0	"	20.0	ND	98.2	75-125			
Benzene	396	0.50	"	20.0	850	NR	75-125			QM-02
Toluene	74.6	0.50	"	20.0	57.3	86.4	75-125			
Surrogate 4-Bromofluorobenzene	8.13		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.84		"	8.00		98.0	81-136			
Surrogate Toluene-d8	8.13		"	8.00		102	88.8-117			

##### Matrix Spike Dup (2021414-MSD1)

Source: T120241-01

Prepared & Analyzed: 02/14/12

Chlorobenzene	21.7	1.0	ug/l	20.0	ND	109	75-125	2.10	20	
1,1-Dichloroethene	11.8	1.0	"	20.0	ND	59.2	75-125	1.76	20	QM-05
Trichloroethene	20.4	1.0	"	20.0	ND	102	75-125	3.60	20	
Benzene	384	0.50	"	20.0	850	NR	75-125	3.15	20	QM-02
Toluene	71.5	0.50	"	20.0	57.3	70.8	75-125	4.27	20	QM-05
Surrogate 4-Bromofluorobenzene	8.06		"	8.00		101	83.5-119			
Surrogate Dibromofluoromethane	7.56		"	8.00		94.5	81-136			
Surrogate Toluene-d8	8.18		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/16/12 16:58
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### Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

17 February 2012

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 92780  
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 02/14/12 16:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao  
Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_703_021412_01	T120249-01	Water	02/14/12 10:07	02/14/12 16:19
LL_704_021412_01	T120249-02	Water	02/14/12 12:45	02/14/12 16:19
LL_704_021412_02	T120249-03	Water	02/14/12 13:00	02/14/12 16:19
LL_705_021412_01	T120249-04	Water	02/14/12 14:20	02/14/12 16:19
LL_705_021412_02	T120249-05	Water	02/14/12 14:30	02/14/12 16:19
LL_706_021412_01	T120249-06	Water	02/14/12 15:44	02/14/12 16:19
LL_TB_021412	T120249-07	Water	02/14/12 15:44	02/14/12 16:19

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_703\_021412\_01**

**T120249-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>470</b>	50	ug/l	1	2021510	02/15/12	02/15/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		89.3 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>3.0</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>28</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>1.0</b>	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_703\_021412\_01**  
**T120249-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>2.5</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>48</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>0.72</b>	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>1.4</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>1.9</b>	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 02/17/12 17:14
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**LL\_703\_021412\_01**  
**T120249-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	116 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	107 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_704\_021412\_01**  
**T120249-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>7700</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021510</b>	<b>02/15/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	98.1 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>6.6</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>9.9</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>5.7</b>	1.0	"	"	"	"	"	"
<b>1,2-Dichloroethane</b>	<b>5.9</b>	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>5.3</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_704\_021412\_01**  
**T120249-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>60</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>11</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>50</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>66</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>210</b>	5.0	"	5	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>500</b>	5.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>3.1</b>	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>310</b>	2.5	"	5	"	"	"	"
<b>Toluene</b>	<b>89</b>	2.5	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>390</b>	2.5	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>530</b>	5.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>95</b>	0.50	"	1	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>73</b>	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/17/12 17:14
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**LL\_704\_021412\_01**  
**T120249-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>100</b>	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		112 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		113 %	81-136		"	"	"	"
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_704\_021412\_02**  
**T120249-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>7800</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021510</b>	<b>02/15/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		96.8 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>6.0</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>9.0</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>4.9</b>	1.0	"	"	"	"	"	"
<b>1,2-Dichloroethane</b>	<b>6.2</b>	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_704\_021412\_02**  
**T120249-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>57</b>	1.0	"	"	"	"	"	"
<b>p-Isopropyltoluene</b>	<b>10</b>	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>53</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>63</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>220</b>	5.0	"	5	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>510</b>	5.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>2.3</b>	1.0	"	1	"	"	"	"
<b>Benzene</b>	<b>320</b>	2.5	"	5	"	"	"	"
<b>Toluene</b>	<b>89</b>	2.5	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>410</b>	2.5	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>560</b>	5.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>96</b>	0.50	"	1	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>80</b>	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/17/12 17:14
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**LL\_704\_021412\_02**  
**T120249-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>130</b>	5.0	"	5	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		97.6 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		118 %	81-136		"	"	"	"
Surrogate: Toluene-d8		103 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_01**  
**T120249-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>410</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021510</b>	<b>02/15/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene	96.8 %	72.6-146	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.7</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>8.9</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_01**  
**T120249-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>10</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
<b>Naphthalene</b>	<b>3.3</b>	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>8.0</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>8.1</b>	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>1.8</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>52</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>1.2</b>	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>7.0</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>7.8</b>	1.0	"	"	"	"	"	"
<b>o-Xylene</b>	<b>0.66</b>	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>240</b>	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_01**  
**T120249-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>250</b>	10	"	10	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		109 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		112 %	81-136		"	"	"	"
Surrogate: Toluene-d8		107 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_02**  
**T120249-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>440</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021510</b>	<b>02/15/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>
Surrogate: 4-Bromofluorobenzene		95.1 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.5</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>8.3</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_02**  
**T120249-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
<b>Isopropylbenzene</b>	<b>9.1</b>	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
<b>n-Propylbenzene</b>	<b>7.2</b>	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
<b>1,3,5-Trimethylbenzene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"
<b>1,2,4-Trimethylbenzene</b>	<b>5.0</b>	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>49</b>	0.50	"	"	"	"	"	"
<b>Toluene</b>	<b>0.86</b>	0.50	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>5.6</b>	0.50	"	"	"	"	"	"
<b>m,p-Xylene</b>	<b>5.7</b>	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>230</b>	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_705\_021412\_02**  
**T120249-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
<b>Methyl tert-butyl ether</b>	<b>250</b>	10	"	10	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		115 %	81-136		"	"	"	"
Surrogate: Toluene-d8		108 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_706\_021412\_01**  
**T120249-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>350</b>	<b>50</b>	<b>ug/l</b>	<b>1</b>	<b>2021510</b>	<b>02/15/12</b>	<b>02/15/12</b>	<b>EPA 8015C</b>	
Surrogate: 4-Bromofluorobenzene	94.2 %	72.6-146	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/16/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>	<b>1.0</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_706\_021412\_01**  
**T120249-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	2021513	02/15/12	02/16/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
<b>Vinyl chloride</b>	<b>2.5</b>	1.0	"	"	"	"	"	"
<b>Benzene</b>	<b>16</b>	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
<b>Tert-butyl alcohol</b>	<b>16</b>	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/17/12 17:14
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**LL\_706\_021412\_01**  
**T120249-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	2021513	02/15/12	02/16/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>4.4</b>	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		99.6 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		107 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_TB\_021412**  
**T120249-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**LL\_TB\_021412**  
**T120249-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex 2640 Walnut Ave. Unit F Tustin CA, 92780	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	<b>Reported:</b> 02/17/12 17:14
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**LL\_TB\_021412**  
**T120249-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2021513	02/15/12	02/15/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	102 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	118 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	104 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2021510 - EPA 5030 GC</b>										
<b>Blank (2021510-BLK1)</b>				Prepared & Analyzed: 02/15/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	80.6		"	100		80.6	72.6-146			
<b>LCS (2021510-BS1)</b>				Prepared & Analyzed: 02/15/12						
C6-C12 (GRO)	5200	50	ug/l	5500		94.5	75-125			
Surrogate 4-Bromofluorobenzene	84.5		"	100		84.5	72.6-146			
<b>Matrix Spike (2021510-MS1)</b>				<b>Source: T120244-01</b>		Prepared & Analyzed: 02/15/12				
C6-C12 (GRO)	5300	50	ug/l	5500	196	92.7	65-135			
Surrogate 4-Bromofluorobenzene	96.3		"	100		96.3	72.6-146			
<b>Matrix Spike Dup (2021510-MSD1)</b>				<b>Source: T120244-01</b>		Prepared & Analyzed: 02/15/12				
C6-C12 (GRO)	5310	50	ug/l	5500	196	92.9	65-135	0.222	20	
Surrogate 4-Bromofluorobenzene	99.0		"	100		99.0	72.6-146			

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2021513 - EPA 5030 GCMS**

**Blank (2021513-BLK1)**

Prepared & Analyzed: 02/15/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2021513 - EPA 5030 GCMS**

**Blank (2021513-BLK1)**

Prepared & Analyzed: 02/15/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	8.25		"
Surrogate Dibromofluoromethane	9.11		"
Surrogate Toluene-d8	8.27		"

8.00 103 83.5-119  
8.00 114 81-136  
8.00 103 88.8-117

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Wendy Hsiao, Project Manager

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2021513 - EPA 5030 GCMS

##### LCS (2021513-BS1)

Prepared & Analyzed: 02/15/12

Chlorobenzene	20.4	1.0	ug/l	20.0		102	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0		108	75-125			
Trichloroethene	22.6	1.0	"	20.0		113	75-125			
Benzene	22.9	0.50	"	20.0		114	75-125			
Toluene	21.6	0.50	"	20.0		108	75-125			
Surrogate 4-Bromofluorobenzene	8.33		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	7.14		"	8.00		89.2	81-136			
Surrogate Toluene-d8	8.55		"	8.00		107	88.8-117			

##### Matrix Spike (2021513-MS1)

Source: T120249-01

Prepared & Analyzed: 02/15/12

Chlorobenzene	18.3	1.0	ug/l	20.0	ND	91.6	75-125			
1,1-Dichloroethene	21.7	1.0	"	20.0	2.98	93.5	75-125			
Trichloroethene	22.8	1.0	"	20.0	2.61	101	75-125			
Benzene	64.3	0.50	"	20.0	48.1	81.0	75-125			
Toluene	21.8	0.50	"	20.0	0.720	105	75-125			
Surrogate 4-Bromofluorobenzene	7.95		"	8.00		99.4	83.5-119			
Surrogate Dibromofluoromethane	7.14		"	8.00		89.2	81-136			
Surrogate Toluene-d8	8.68		"	8.00		108	88.8-117			

##### Matrix Spike Dup (2021513-MSD1)

Source: T120249-01

Prepared & Analyzed: 02/15/12

Chlorobenzene	19.6	1.0	ug/l	20.0	ND	98.0	75-125	6.86	20	
1,1-Dichloroethene	21.3	1.0	"	20.0	2.98	91.6	75-125	1.82	20	
Trichloroethene	26.6	1.0	"	20.0	2.61	120	75-125	15.5	20	
Benzene	66.6	0.50	"	20.0	48.1	92.8	75-125	3.58	20	
Toluene	22.8	0.50	"	20.0	0.720	110	75-125	4.39	20	
Surrogate 4-Bromofluorobenzene	7.97		"	8.00		99.6	83.5-119			
Surrogate Dibromofluoromethane	6.96		"	8.00		87.0	81-136			
Surrogate Toluene-d8	8.93		"	8.00		112	88.8-117			

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Wendy Hsiao, Project Manager



Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 92780

Project: Cenco  
Project Number: 1003-001-300  
Project Manager: Jeremy Squire

**Reported:**  
02/17/12 17:14

### Notes and Definitions

DET      Analyte DETECTED  
ND      Analyte NOT DETECTED at or above the reporting limit  
NR      Not Reported  
dry      Sample results reported on a dry weight basis  
RPD      Relative Percent Difference

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SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

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## Chain of Custody Record

Date: 2.14.2012 Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: TC20249

EDF #:

[illegible]

**Sample disposal instructions:**    Disposal @ \$2.00 each                  Return to client                  Pickup

## SAMPLE RECEIVING REVIEW SHEET

BATCH # T120249

Client Name: MUREX ENV.

Project: CHICO

Received by: SUNNY

Date/Time Received: 2-14-12 / 16:19

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 1.4 °C +/- the CF (-0.2°C) = 1.2 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (-0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (-0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No\* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No\* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No\*

Sample labels match COC ID's ☒ Yes ☐ No\*

Total number of containers received match COC ☒ Yes ☐ No\*

Proper containers received for analyses requested on COC ☒ Yes ☐ No\*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No\* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 2-15-12

Comments:

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